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Central Heating Plant Economic Evaluation Program, Volume 4: Coalfield Properties Information Data Management Program

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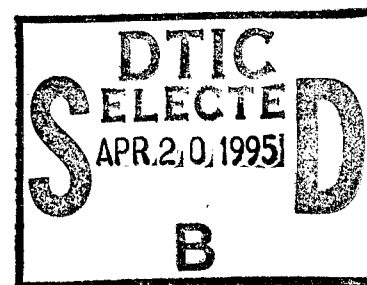
Public Law has directed the Department of Defense (DOD) to rehabilitate and convert its existing domestic power plants to burn more coal. Other Federal legislation requires DOD to use the most economic fuel for any new heating system.

This five-volume report discusses the Central Heating Plant Economic Evaluation Program (CHPECON), a computer program for screening potential new and retrofit steam/power generation facilities.

Volume 1 is the Technical Reference.
Volume 2 is the User's Manual.
Volume 3 is the Military Base Weather Information Data Management Program.
Volume 4 is the Coalfield Properties Information Data Management Program.
Volume 5 is the Emission Regulations Data Management Program.

CHPECON provides screening criteria to evaluate competing combustion technologies using coal, gas, or oil; detailed conceptual facility design information; budgetary facility costs; and economic measures of project acceptability including total life cycle costs and leveled cost of service.

The program provides sufficient flexibility to vary critical design and operating parameters to determine project sensitivity and parametric evaluation.



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Foreword

This study was conducted for the Assistant Chief of Staff for Installation Management (ACS(IM)), Directorate of Facilities and Housing under the Coal Conversion Studies Program, which is administered by the Energy Policy Directorate of the Office of the Assistant Secretary of Defense, Production & Logistics, Energy Policy (OASD P&L/EP). Millard Carr is the Program Manager. Funding was provided under Military Interdepartmental Purchase Request (MIPR) No. W56HZV89-AC-01; Work Units "Coal Conversion Strategies for DOD" and "Enhancement of Existing Models," dated 20 November 1989. The technical monitor was Qaiser Toor, DAIM-FDF-U.

The work was performed by the Fuels and Power Systems Team (FEP), Energy and Utility Systems Division (FE) of the Infrastructure Laboratory (FL), U.S. Army Construction Engineering Research Laboratories (USACERL). Special acknowledgment is given to Lee Thurber, Rama Katz, and Mei-Yi Feng, CECER-FE for their efforts in organizing technical materials. Dr. David M. Joncich is Chief, CECER-FE, and Alan Moore is Acting Chief, CECER-FL. The USACERL technical editor was Gloria J. Wienke, Information Management Office.

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1 Introduction

Background

The fiscal year (FY) 1986 Defense Appropriation Act (Public Law [PL]-99-190) Section 8110 directed the Department of Defense (DOD) to implement the rehabilitation and conversion of central heating plants to coal firing. The target set by this act was 1.6 million short tons* of coal per year above the 1985 consumption level by 1994. The language further stated that 300,000 tons of this amount should be anthracite coal. The purpose of this Section was to offset decreasing anthracite coal use in Germany resulting from U.S. Army, Europe (USAREUR) installations connecting to district heating systems. The FY 1987 Defense Authorization Act (PL-99-661, Section 1205) also directed that the primary fuel source in any new heating system be the most life cycle cost effective. To assist in complying with these acts, the U.S. Army Center for Public Works (USACPW) requested that the U.S. Army Construction Engineering Research Laboratories (USACERL) provide technical studies and support for the Army's Coal Conversion Program.

Objective

The objective of this project is to develop a series of screening and life cycle cost estimating computer models to determine when and where specific coal combustion technologies can be economically implemented at Army central heating plants.

Approach

The approach for providing Coal Conversion Program support has been to develop tools useful for long range utility planning and for evaluating both the technical and economic feasibility of conversion. Cost estimating methods have been developed for building new coal, gas, or oil plants, and for retrofitting existing plants to coal firing capability. Supporting data bases have been developed covering installation-specific data (heating plant inventory, building inventory, weather data, energy usage),

* A metric conversion table is on page 20.

environmental regulations, coal supply information, and combustion equipment performance. The plant sizes examined in the model range from 50,000 to 600,000 pounds per hour (lb/hr) with individual boiler sizes from 20,000 to 200,000 lb/hr of steam or high temperature hot water (HTHW). The program is divided into two parts: the preliminary screening model and the detailed cost model. The screening model is used to initially evaluate each plant site and boiler technology option to produce a list of the promising locations and technology options. The screening model contains five distinct sections for evaluating new heating plants, retrofit heating plants, cogeneration facilities (in base-managed and third-party-managed forms), and consolidation of existing multiple boiler plants.

The new heating plant screening model is used to determine if a new coal fired heating plant can be built to replace an existing steam plant (150 pounds per square inch gauge [psig] saturated steam or equivalent hot water or 250 psig saturated steam). The boiler technology options include: stoker, bubbling fluidized bed, circulating fluidized bed, coal/water slurry, coal/oil slurry, natural gas, and #2 and #6 fuel oils.

The retrofit screening model is used to determine if the existing boilers can be retrofitted to fire coal or low-British thermal unit (Btu) gas supplied from a gasifier. The boiler options include: coal-water slurry, coal-oil slurry, micronized coal, slagging coal, bubbling fluidized bed, and stoker, as well as gasification.

The cogeneration screening model is used to determine if a new cogeneration steam plant is a feasible alternative for a military base heating plant. Medium pressure (600 psig, 750 °F) or high pressure (1300 psig, 1000 °F) plants can be analyzed. The boiler types considered are stoker, coal-oil slurry, coal-water slurry, bubbling fluidized bed, and circulating fluidized bed.

The consolidation screening model is used to determine if the military base should consolidate several individual heating plants into one main heating plant. This section assesses whether the steam distribution density is sufficient to consider consolidation as a practical option.

After the screening model has been executed, the user has the option to quit or to restart another screening model (for another option) or to continue to obtain a cost estimate for the selected facility. The costing model contains sections for a new heating plant, retrofit heating plant, cogeneration facility (base and third party), and consolidated facility.

The costing model provides conceptual facility design, capital installed costs of the conceptual facility, operational and maintenance costs over the life of the conceptual facility, and life cycle costs.

Report Organization

This report discusses the Central Heating Plant Economic Evaluation Program (CHPECON) and is divided into the following five volumes:

Central Heating Plant Economic Evaluation Program, Volume 1: Technical Reference.

Central Heating Plant Economic Evaluation Program, Volume 2: User's Manual

Central Heating Plant Economic Evaluation Program, Volume 3: Military Base Weather Information Data Management Program

Central Heating Plant Economic Evaluation Program, Volume 4: Coalfield Properties Information Data Management Program.

Central Heating Plant Economic Evaluation Program, Volume 5: Emission Regulation Data Management Program

System Requirements

CHPECON was developed using an 80286 personal computer with 640K memory, and was run using MS-DOS 3.3. The models should operate satisfactorily on 8088/80286/80386 processors with MS-DOS 2.0 and above. The program is written in dBase III Plus compatible language with some extensions. To provide the necessary speed and compactness, the program is distributed in compiled form using Nantucket's Clipper and allows stand-alone operation without requiring additional utilities.*

Scope

The purpose of this work is to investigate the feasibility of conversion of Army central heating plants to coal firing. The models developed are generally applicable to industrial or large commercial facilities. The economic evaluation program for screening and life cycle costs will serve as a tool to select and rank potential Army sites for coal conversion.

* dBASE III Plus is a registered trademark of Ashton-Tate, and Clipper is a registered trademark of Nantucket Software.

Mode of Technology Transfer

The CHPECON program may be obtained by contacting the USACERL Fuels and Power Systems Team at 1-800-872-2375, extension 5551. The program will be transferred to Major Army Command Headquarters for further distribution. It is recommended that availability of this program and the information presented in this report be disseminated in a Public Works Technical Bulletin.

2 The COALFIELD Program

Introduction

This data base program for coal field properties was developed to support an overall program for studying coal usage at continental U.S. Army bases. The program, COALFIELD, is written in dBASE III Plus and can be used as a stand-alone program or can be merged with the overall Central Heating Plant Economic Evaluation (CHPECON) program. The stand-alone capability of COALFIELD eliminates the need to reinstall all the CHPECON program files when updating the coal field properties files. In support of CHPECON, COALFIELD maintains the file from which the coal program draws its information about coal fields. In use, this file is scanned for suitability with the user-selected technology (e.g., type of coal, range of hemispherical temperatures), and for locations within a specified distance from a base.

The United States Geological Survey (USGS) was the source of the coal properties data. The original sample size consisted of over 6000 entries. Noncoal entries were deleted from this set, as were entries that were incomplete. An additional pass through the data was required to eliminate those entries that were outside the range of consideration for this research. Duplicate entries (defined as the same latitude and longitude) were then eliminated. The resulting database has over 2400 entries from among 31 states.

Information Review

Figure 1 shows the standard display for the coal fields properties program. All the information used by the CHPECON program pertinent to a coal field is contained on one screen divided into logical sections. The area within the box is the coal field information. The area below the box is for the menu prompts and display of program messages. The information is accessed and updated through this menu. To select an option, press the capitalized letter in the option description.

Edit field <E> permits editing of the displayed coal field.

| | | | |
|---|-------------------|--------------------------------------|-----------------|
| Coal field location | | Last changed: 09/01/88 | |
| State: TN - Tennessee | | Location: PETROLEUMS ENERGY SERV INC | |
| County: MARION | | Lat: 35°17'42" | Long: 85°32'15" |
| Proximate Analysis | | | |
| Moisture: 3.50 % (as delivered) | | | |
| ---(dry basis)--- | | | |
| Fixed Carbon: 64.70 % | Volatile: 26.30 % | Ash: 9.00 % | |
| Ultimate Analysis -- (dry basis) | | | |
| Carbon: 78.10 % | Hydrogen: 4.70 % | Nitrogen: 1.60 % | |
| Sulfur: 0.60 % | Oxygen: 6.00 % | | |
| Miscellaneous | | | |
| Gross Calorific Value (dry): 13750 Btu/lb | | Rank: B | |
| Hemispherical Temperature: 2804 °F (H=1/4W, reducing) | | | |
| Hardgrove Grindability Index: 0.0 | | Free Swelling Index: 4.5 | |
| Code Number: W193643 | | | |
| Note: | | | |
| Edit field / Add field / move Forward / move Backward | | | |
| Delete field / change Views / Print field list / Quit | | | |
| Option (E/A/F/B/D/V/P/Q) « » | | | |

Figure 1. Screen display for detailed view of coal field information.

Add field <A> adds a blank field entry, then goes to the editing subroutine to allow entering the correct values for a new coal field.

Move Forward <F> displays the next coal field (as if flipping through a card file) until the end is reached.

**Move Backward ** displays the previous coal field (moving toward the beginning of the file) until the first entry is reached. The entries in the file are arranged by state.

Delete field <D> causes the field currently displayed to be eliminated from the file. The information that was entered is lost. As a check, you are asked to confirm the decision to delete a coal field.

Change Views <V> switches to a display that shows less information about an individual field but allows many fields to be displayed at one time. This is discussed in detail below.

Print a field list <P> allows you to print entries from the coalfield data base. Selecting this option brings up another prompt, asking if you want to print the displayed entry, the entries for a single state, all entries, or quit and return to the main screen without printing. If you request printing of the displayed field or all fields, the program begins printing. If you request to print by state, the program asks for the name or abbreviation of the state. After answering the

prompt for the state, the program begins printing. An example of the printed information is shown in Figure 2.

Quit <Q> returns you to the previous menu, if the program was run as part of the overall program set, or returns to the operating system, if the program was run as a separate module.

Changing the view from the detailed display of the coal field information brings up a display showing many coal field entries per screen, but less information about each coal field. An example of the display is presented in Figure 3. The menu options are the same as for the detailed display; however, they work somewhat differently.

"Editing a field <E>" requires you to first indicate which entry should be edited out of the list displayed, then proceeds as before. Use the up- and down-arrow keys on the

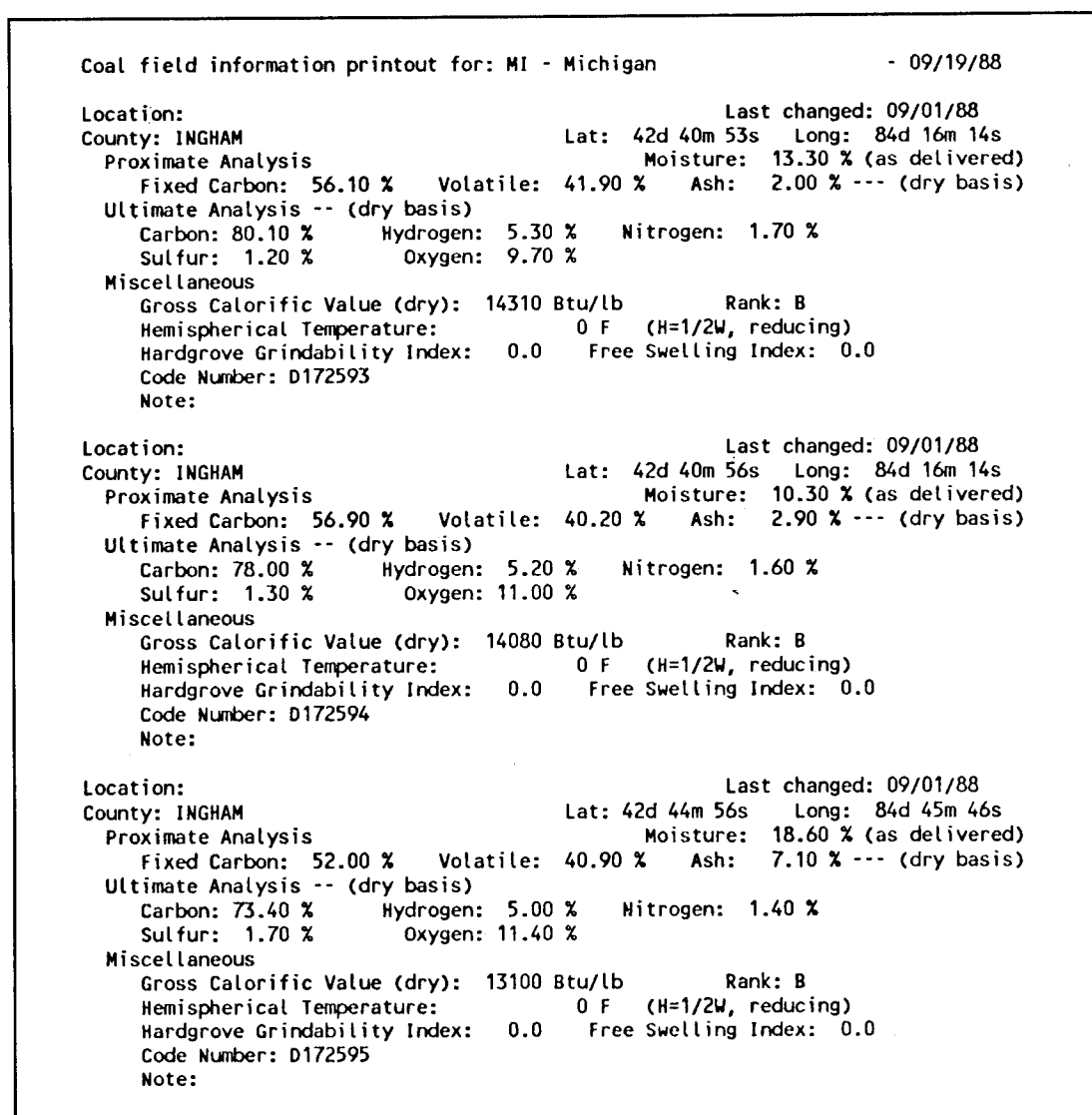


Figure 2. Example of coal field information printout.

| Coal Field Information Management Program | | | 09/20/88 |
|---|------|------------|----------------------------|
| Condensed View of Coal Fields | | | |
| State | Rank | County | Location |
| PA | B | ELK | STRIP MINE |
| PA | B | ELK | STRIP MINE |
| TN | B | MARION | ALLEN COAL CO |
| TN | B | GRUNDY | FOUR SEASONS COAL CO |
| TN | B | MARION | PETROLEUMS ENERGY SERV INC |
| TN | B | BLEDSON | PIONEER COAL CO |
| TN | B | SEQUATCHIE | SOUTHERN ENERGY RES CO |
| TN | B | BLEDSON | LUCKY CUMBERLAND COAL CO |
| TN | B | BLEDSON | LAMB CREEK COAL CO |
| TN | B | BLEDSON | SAUNDERS COAL CO |
| TN | L | LAUDERDALE | STATE PRISON FARM |
| TN | B | ANDERSON | JACKSON MINING CO |
| TN | B | MORGAN | G&B COAL CO |

Edit field / Add field / move Forward / move Backward
 Delete field / change Views / Print field list / Quit
 Option (E/A/F/B/D/V/P/Q) « »

Figure 3. Screen display for condensed view of coal field information.

cursor keypad, then press "E" when the pointer is at the desired field. You can also quit from the editing pointer display back to the main menu. "Adding <A>" is the same in that a blank entry is created, then the program switches to editing the blank entry to place the information in the file.

Moving "Forward <F>" and "Backward " moves up or down one screen at a time; since many coal fields are displayed, this allows quicker movement through the file.

"Deleting a field <D>" requires you to first indicate which entry should be deleted. Deleting in this view also requires a confirmation, as did deleting in the detailed view. "Changing Views <V>" in this view moves you back to the detailed view.

"Print a field list <P>" is the same as before, as is Quit <Q>".

3 Information Editing

The information displayed in the detailed view (Figure 1) is divided into logical sections within the box. The first section is the coal field's location. The location field should contain the actual name of the mine (preferred) or a description of the type of site. The last changed date is displayed, but is not directly changed. When a field's data is edited, or when it is first added, the last changed date is automatically updated to the current date in the computer system's clock. The latitude displayed is the north (assumed) latitude of the coal field in the format $DDD^{\circ}MM'SS''$, where DDD is in degrees, MM is in minutes, SS is in seconds. The longitude displayed is the west (assumed) longitude of the coal field in the same $DDD^{\circ}MM'SS''$ format.

The next boxed-in area of the detailed view contains the coal's proximate analysis. The moisture fraction of the coal is for the coal as delivered, in percent, from the proximate analysis laboratory results. The next three values are for the coal on a dry basis, as noted on the screen. The values, in percent, are for the fractions of fixed carbon, volatiles, and ash in the coal. The total of these three values must equal 100 percent. If the sum of the values does not equal 100 percent, a message is displayed on the right side of the screen. If you ignored this, the program displays a message that it cannot proceed when the data screen is completed, instead of the prompt for whether the information entered should be accepted.

The next boxed-in area is for the ultimate analysis of the coal, on a dry basis. The values, in percent, are for the fractions of carbon, hydrogen, nitrogen, sulfur, and oxygen in the coal. These five values and the ash value should total 100 percent. In the same manner as the proximate analysis, if the values do not equal 100 percent, a message is displayed on the right side of the screen. If this message is ignored, the program stops at the end of the entries with the longer message that the ultimate analysis values do not total 100 percent. It is possible that both the proximate and ultimate totals will not equal 100 percent due to an erroneous ash value entry.

The values in the miscellaneous box describe the coal in more general terms. The gross calorific value (heating value on a dry basis) is in Btu/lb of coal. The expected range is from 5,000 to 20,000 Btu/lb. The rank is the general type of coal. Acceptable values to the program are: B (bituminous), SB (sub-bituminous), L (lignite), A (anthracite), and SA (semi-anthracite). The program continues to prompt until one of

these values is entered. The hemispherical temperature is the value defined by height = $(0.5) \times (\text{width})$ in a reducing environment, in degrees Fahrenheit. Acceptable values are from 1000 to 3500 °F. The Hardgrove Grindability Index has an acceptable value range of from 20 to 120. The Free Swelling Index has an acceptable value range of from 0 to 9. The code number is a unique number given to the entry for later identification; it is alphanumeric, with a check made on the uniqueness of the entry. In the case of the original data, the code number is the USGS number assigned to the entry. The note contains any additional information that should be recorded about the coal field. For example, the note could indicate that this coal field is the one used by a certain base, or that the reserves of the coal field are limited. Anything that may be useful in deciding to use a coal field should be placed in the note space.

For some of the information about a coal field, a value of 0 can be entered instead of a value in the expected range. This has been provided for the times when some of the values are not yet known. However, the proximate analysis, the gross calorific values, and the latitude and longitude must be entered. Table 1 summarizes the error checking in the program.

Table 1. Summary of error checking on entered data.

| Information | Acceptable Values |
|--------------|--|
| State | Must be one of the 50 states. |
| Location | No error checking implemented. Can be a blank entry. |
| County | No error checking implemented. Can be a blank entry. |
| Latitude | The latitude must be in the format DDD°MM'SS", where DDD is in degrees, MM is in minutes, SS is in seconds. DDD must be in the range from 25 to 72. MM and SS must be a value of 00 to 59, inclusive. |
| Longitude | The longitude must be in the format DDD°MM'SS", where DDD is in degrees, MM is in minutes, SS is in seconds. DDD must be in the range from 63 to 172°. MM and SS must be a value of 00 to 59, inclusive. |
| Moisture | Moisture fraction of the coal should be in the range of 0 to 60 percent, inclusive. |
| Fixed Carbon | Fraction of fixed carbon in the coal must be in the range of 20 to 99 percent, inclusive. Total of fixed carbon, volatiles, and ash must equal 100 percent. |
| Volatiles | Fraction of volatiles in the coal must be in the range of 0 to 60 percent, inclusive. Total of fixed carbon, volatiles, and ash must equal 100 percent. |
| Ash | Fraction of ash in the coal must be in the range of 0 to 50 percent, inclusive. Total of fixed carbon, volatiles, and ash must equal 100 percent. |
| Carbon | Fraction of carbon can have a value from 20 to 99 percent, inclusive. Total of carbon, hydrogen, sulfur, oxygen, nitrogen (ultimate analysis), and ash from proximate analysis must equal 100 percent. |

| Information | Acceptable Values |
|------------------------------------|---|
| Hydrogen | Fraction of hydrogen can have a value from 0 to 30 percent, inclusive. Total of carbon, hydrogen, sulfur, oxygen, nitrogen (ultimate analysis), and ash from proximate analysis must equal 100 percent. |
| Sulfur | Fraction of sulfur can have a value from 0 to 20 percent, inclusive. Total of carbon, hydrogen, sulfur, oxygen, nitrogen (ultimate analysis), and ash from proximate analysis must equal 100 percent. |
| Oxygen | Fraction of oxygen can have a value from 0 to 50 percent, inclusive. Total of carbon, hydrogen, sulfur, oxygen, nitrogen (ultimate analysis), and ash from proximate analysis must equal 100 percent. |
| Nitrogen | Fraction of nitrogen can have a value from 0 to 30 percent, inclusive. Total of carbon, hydrogen, sulfur, oxygen, nitrogen (ultimate analysis), and ash from proximate analysis must equal 100 percent. |
| Gross Calorific Value | Heating value must be in the range of 5,000 to 20,000 Btu/lb, inclusive. |
| Rank | The rank, or type, of the coal must be one of the following five values: B = bituminous SB = sub-bituminous L = lignite A = anthracite SA = semi-anthracite |
| Hemispher. Tempera- ture | Hemispherical temperature of the coal (defined as height = 0.5 x width) is in the range of 1000 to 3500 °F, inclusive, or 0 if no value is known. |
| Hardgrove Grindability Index | The index must be in the range of 20 to 120, inclusive, or 0 if no value is known. |
| Free Swelling Index | The index must be in the range of 0 to 9, inclusive, with 0 either a real value or representative of no value know. |
| Code Number | The code number must be a unique entry in the data base. It cannot be a blank entry. |
| Note | No error checking implemented. Can be a blank entry. |

4 Program and Data Listing

The listing of the program segments is contained in Appendix A of this report. A listing of the information stored in the coal field data base from the USGS data is contained in Appendix B of this report. The file structure of COALFIEL.DBF is shown in Table 2. The individual data base fields are updated through the coal field information screen, as described earlier.

Two data base fields used by CHPECON have been added that specifically require storing information about coal fields. SLCTD (selected) is a logical field that is set TRUE or FALSE based on whether the coal field has been selected by CHPECON based on the distance it is from the military base that is being studied. DIST FROM is the distance in miles that the coal field is from the military base. This value is displayed as part of the acceptable coal fields display when you are given the opportunity to review before selecting one coal field for use of its properties in the emissions and technology analysis of CHPECON.

Table 2. Structure for data base file COALFIEL.DBF.

| Field | Field Name* | Field Type | Field Width | Decimal Width |
|-------|-------------|------------|-------------|---------------|
| 1 | State | Character | 2 | |
| 2 | County | Character | 23 | |
| 3 | Location | Character | 30 | |
| 4 | Last Chg | Date | 8 | |
| 5 | Latitude | Numeric | 7 | |
| 6 | Longitude | Numeric | 7 | |
| 7 | Moisture | Numeric | 6 | 2 |
| 8 | Volatile | Numeric | 6 | 2 |
| 9 | Fixed Crbn | Numeric | 6 | 2 |
| 10 | Ash | Numeric | 6 | 2 |
| 11 | Rank | Character | 5 | |
| 12 | HHv Dry | Numeric | 6 | |
| 13 | Hrdgrv Grd | Numeric | 5 | 1 |
| 14 | Free Swell | Numeric | 4 | 1 |

| | | | | |
|----|-----------|-----------|----|---|
| 15 | Aft S | Numeric | 5 | |
| 16 | Carbon | Numeric | 5 | 2 |
| 17 | Hydrogen | Numeric | 5 | 2 |
| 18 | Sulfur | Numeric | 5 | 2 |
| 19 | Oxygen | Numeric | 5 | 2 |
| 20 | Nitrogen | Numeric | 5 | 2 |
| 21 | Code No | Character | 20 | |
| 22 | Cmmnt | Character | 65 | |
| 23 | Slctd | Logical | 1 | |
| 24 | Dist From | Numeric | 5 | |

| *Field | Description |
|--------------|---|
| Location | Either the name of the mine or a description of the type of mine. |
| County | County in which the coal field is located. |
| Code Number | A unique number given to the entry for later identification. (In the case of the original date, this is the USGS number assigned to the entry.) |
| Latitude | The north latitude of the coal field in the format DDDMMSS, where DDD is in degrees, MM is in minutes, SS is in seconds. |
| Longitude | The west longitude of the coal field in the format DDDMMSS, where DDD is in degrees, MM is in minutes, SS is in seconds. |
| Rank | The rank, or type, of the coal: B = bituminous SB = sub-bituminous L = lignite A = anthracite SA = semi-anthracite |
| Htg Val | Heating value of the dry coal in Btu/lb. |
| Last Chg | Date the entry was last changed. |
| Moisture | Moisture fraction of the coal as delivered, in percent, from the proximate analysis. |
| Volatiles | Fraction of volatiles in the coal on a dry basis, in percent, from the proximate analysis. |
| Fixed Carbon | Fraction of fixed carbon in the coal on a dry basis, in percent, from the proximate analysis. |
| Ash | Fraction of ash in the coal on a dry basis, in percent, from the proximate analysis. |
| Carbon | Fraction of carbon in the coal on a dry basis, in percent, from the ultimate analysis. |
| Hydrogen | Fraction of hydrogen in the coal on a dry basis, in percent, from the ultimate analysis. |

| *Field | Description |
|------------|--|
| Sulfur | Fraction of sulfur in the coal on a dry basis, in percent, from the ultimate analysis. |
| Oxygen | Fraction of oxygen in the coal on a dry basis, in percent, from the ultimate analysis. |
| Nitrogen | Fraction of nitrogen in the coal on a dry basis, in percent, from the ultimate analysis. |
| Hardgrove | Hardgrove grindability index of the coal. |
| Free Swell | Free swelling index of the coal. |
| Hemi Temp | Hemispherical temperature of the coal, in °F; defined as the softening temperature at which $H=1/2W$ |

5 Program and Data Installation

The stand-alone nature of COALFIELD requires that it be installed as an independent entity before use, even if it will be used only as part of CHPECON. One disk contains the programs and empty data files for COALFIELD. The installation consists of copying the disks to a suitable subdirectory on a hard disk of the computer that will be used. When the COALFIELD program is run, it will automatically create the index files it needs. However, at this point the index files will be blank.

The COALFIELD data base itself is larger than a standard 360k floppy disk when it contains the information generated in this project. Because of this, an additional program has been provided that manages the process of handling small files that will fit on 360k floppies, called COALBLD. COALBLD is a standalone program with a menu of three options:

Adding to COALFIEL.DBF will cause COALBLD to look for data files named COALFL##.DBF, where ## can vary from 1 to 99. COALFIEL.DBF can be optionally cleared (previous information removed) before adding, and index files are rebuilt if any additions are made. COALBLD will use the data structure of the first data file that is found to create COALBLD.DBF if COALFIEL.DBF is not initially present. COALBLD will look only in the current drive/directory for COALFIEL.DBF and COALFL##.DBF.

Splitting COALFIEL.DBF will produce the small data files that are looked for by COALBLD during the adding process. COALBLD will inform you if it cannot find COALFIEL.DBF. It will erase any previous small data files, leaving only the current ones on the directory.

Quitting will end COALBLD.

To use COALBLD to place all available data into the COALFIEL.DBF data base file, first copy all available disks to the directory where COALFIELD is installed. Then start COALBLD and select the adding option. To split the COALFIEL.DBF apart, start COALBLD and select the splitting option. The individual files can then be copied to floppies or other media for transfer to another system.

6 Running COALFIELD

To run COALFIELD as a stand-alone program, you must know the program's environment.

1. If run under dBASE III or a compatible interpreter (like FoxBase*), start dBASE, then enter the command **DO COALFIEL**, and press the <RETURN> key.
2. If run as a compiled program (like Clipper**), from the DOS prompt (or similar), enter the command **COALFIEL**, and press the <RETURN> key.

Exiting the program will return you to the level that called it—the dot prompt if in dBASE or FoxBase, and the DOS prompt if in Clipper.

Metric Conversion Table

| | | |
|----------|---|--------------------------|
| 1 in. | = | 25.4 mm |
| 1 sq in | = | 6.452 cm ² |
| 1 psi | = | 6.89 kPa |
| 1 psi | = | 89.300 g/cm ² |
| 1 lb | = | 0.453 kg |
| 1 lb/hr | = | 0.126 g/s |
| 1 cu ft | = | 0.028 m ³ |
| 1 sq ft | = | 0.093 m ² |
| °F | = | (°C + 17.78) × 1.8 |
| 1 Btu/lb | = | 0.556 cal/g |
| 1 ton | = | 907.185 kg |

* FoxBase is a registered trademark of Fox Software, Inc.

** Clipper is a registered trademark of Nantucket Software.

Appendix A: Program Listing

01-11-89 15:00:00 CHKSTAT2.PRG
Wed 01-11-89 15:15:18

Pg 1
of 6
1-50

```
*****
*- CHKSTAT2.PRG -- Last Update 01/11/89
*- Copyright (c) 1988,1989 by John A. Kinast
*- All Rights Reserved
*- written for CERL
*****
*- attempt to decipher state entry, detailed analysis
*****
*
* convert state entry to upper case, set up length and flag
st=UPPER(LTRIM(TRIM(st)))
stln=LEN(st)
stlst=""
stn=""
ok=.f.

* if entry is two characters,
* check to see if it is proper state abbreviation
+---IF stln=2
|   DO idstate
+---ENDIF

* if state found, stlst has name, routine can return from here
+---IF LEN(stlst)>0
|   stn=st
|   ok=.t.
|   RETURN
+---ENDIF

* if length is 0 (no entry), set name to special code
+---IF stln=0
|   stlst="--,--"
|   ok=.t.
+---ENDIF

* if nothing has been found, try matching
* first letters of entry with state names
+---DO WHILE .NOT. ok
|
|   +---IF 'ALABAMA'=st
|   |   stlst=stlst+', Alabama'
|   |   stn='AL'
|   +---ENDIF
|   +---IF 'ALASKA'=st
|   |   stlst=stlst+', Alaska'
|   |   stn='AK'
|   +---ENDIF
|   +---IF 'ARKANSAS'=st
|   |   stlst=stlst+', Arkansas'
```

01-11-89 15:00:00 CHKSTAT2.PRG
Wed 01-11-89 15:15:18

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of 6
51-100

```
| | stn='AR'  
| +---ENDIF  
| +---IF 'ARIZONA'=st  
| | stlist=stlist+', Arizona'  
| | stn='AZ'  
| +---ENDIF  
| +---IF 'CALIFORNIA'=st  
| | stlist=stlist+', California'  
| | stn='CA'  
| +---ENDIF  
| +---IF 'COLORADO'=st  
| | stlist=stlist+', Colorado'  
| | stn='CO'  
| +---ENDIF  
| +---IF 'CONNECTICUT'=st  
| | stlist=stlist+', Connecticut'  
| | stn='CT'  
| +---ENDIF  
| +---IF 'DELAWARE'=st  
| | stlist=stlist+', Delaware'  
| | stn='DE'  
| +---ENDIF  
| +---IF 'DISTRICT OF COLUMBIA'=st  
| | stlist=stlist+', District of Columbia'  
| | stn='DC'  
| +---ENDIF  
| +---IF 'FLORIDA'=st  
| | stlist=stlist+', Florida'  
| | stn='FL'  
| +---ENDIF  
| +---IF 'GEORGIA'=st  
| | stlist=stlist+', Georgia'  
| | stn='GA'  
| +---ENDIF  
| +---IF 'HAWAII'=st  
| | stlist=stlist+', Hawaii'  
| | stn='HI'  
| +---ENDIF  
| +---IF 'IDAHO'=st  
| | stlist=stlist+', Idaho'  
| | stn='ID'  
| +---ENDIF  
| +---IF 'ILLINOIS'=st  
| | stlist=stlist+', Illinois'  
| | stn='IL'  
| +---ENDIF  
| +---IF 'INDIANA'=st  
| | stlist=stlist+', Indiana'  
| | stn='IN'  
| +---ENDIF
```



```
|  +---IF 'IOWA'=st
|  |      stlst=stlst+', Iowa'
|  |      stn='IA'
|  +---ENDIF
|  +---IF 'KANSAS'=st
|  |      stlst=stlst+', Kansas'
|  |      stn='KS'
|  +---ENDIF
|  +---IF 'KENTUCKY'=st
|  |      stlst=stlst+', Kentucky'
|  |      stn='KY'
|  +---ENDIF
|  +---IF 'LOUISIANA'=st
|  |      stlst=stlst+', Louisiana'
|  |      stn='LA'
|  +---ENDIF
|  +---IF 'MAINE'=st
|  |      stlst=stlst+', Maine'
|  |      stn='ME'
|  +---ENDIF
|  +---IF 'MARYLAND'=st
|  |      stlst=stlst+', Maryland'
|  |      stn='MD'
|  +---ENDIF
|  +---IF 'MASSACHUSETTS'=st
|  |      stlst=stlst+', Massachusetts'
|  |      stn='MA'
|  +---ENDIF
|  +---IF 'MICHIGAN'=st
|  |      stlst=stlst+', Michigan'
|  |      stn='MI'
|  +---ENDIF
|  +---IF 'MINNESOTA'=st
|  |      stlst=stlst+', Minnesota'
|  |      stn='MN'
|  +---ENDIF
|  +---IF 'MISSISSIPPI'=st
|  |      stlst=stlst+', Mississippi'
|  |      stn='MS'
|  +---ENDIF
|  +---IF 'MISSOURI'=st
|  |      stlst=stlst+', Missouri'
|  |      stn='MO'
|  +---ENDIF
|  +---IF 'MONTANA'=st
|  |      stlst=stlst+', Montana'
|  |      stn='MT'
|  +---ENDIF
|  +---IF 'NEBRASKA'=st
|  |      stlst=stlst+', Nebraska'
```

```
|      stn='NE'  
| +---ENDIF  
| +---IF 'NEVADA'=st  
| |      stlst=stlst+', Nevada'  
| |      stn='NV'  
| +---ENDIF  
| +---IF 'NEW HAMPSHIRE'=st  
| |      stlst=stlst+', New Hampshire'  
| |      stn='NH'  
| +---ENDIF  
| +---IF 'NEW JERSEY'=st  
| |      stlst=stlst+', New Jersey'  
| |      stn='NJ'  
| +---ENDIF  
| +---IF 'NEW MEXICO'=st  
| |      stlst=stlst+', New Mexico'  
| |      stn='NM'  
| +---ENDIF  
| +---IF 'NEW YORK'=st  
| |      stlst=stlst+', New York'  
| |      stn='NY'  
| +---ENDIF  
| +---IF 'NORTH CAROLINA'=st  
| |      stlst=stlst+', North Carolina'  
| |      stn='NC'  
| +---ENDIF  
| +---IF 'NORTH DAKOTA'=st  
| |      stlst=stlst+', North Dakota'  
| |      stn='ND'  
| +---ENDIF  
| +---IF 'OHIO'=st  
| |      stlst=stlst+', Ohio'  
| |      stn='OH'  
| +---ENDIF  
| +---IF 'OKLAHOMA'=st  
| |      stlst=stlst+', Oklahoma'  
| |      stn='OK'  
| +---ENDIF  
| +---IF 'ORECON'=st  
| |      stlst=stlst+', Oregon'  
| |      stn='OR'  
| +---ENDIF  
| +---IF 'PENNSYLVANIA'=st  
| |      stlst=stlst+', Pennsylvania'  
| |      stn='PA'  
| +---ENDIF  
| +---IF 'RHODE ISLAND'=st  
| |      stlst=stlst+', Rhode Island'  
| |      stn='RI'  
| +---ENDIF
```

01-11-89 15:00:00 CHKSTAT2.PRG
Wed 01-11-89 15:15:18

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201-250

```
| +---IF 'SOUTH CAROLINA'=st
| | stlst=stlst+', South Carolina'
| | stn='SC'
| +---ENDIF
| +---IF 'SOUTH DAKOTA'=st
| | stlst=stlst+', South Dakota'
| | stn='SD'
| +---ENDIF
| +---IF 'TEXAS'=st
| | stlst=stlst+', Texas'
| | stn='TX'
| +---ENDIF
| +---IF 'TENNESSEE'=st
| | stlst=stlst+', Tennessee'
| | stn='TN'
| +---ENDIF
| +---IF 'UNITED STATES'=st
| | stlst=stlst+', United States'
| | stn='US'
| +---ENDIF
| +---IF 'UTAH'=st
| | stlst=stlst+', Utah'
| | stn='UT'
| +---ENDIF
| +---IF 'VERMONT'=st
| | stlst=stlst+', Vermont'
| | stn='VT'
| +---ENDIF
| +---IF 'VIRGINIA'=st
| | stlst=stlst+', Virginia'
| | stn='VA'
| +---ENDIF
| +---IF 'WASHINGTON'=st
| | stlst=stlst+', Washington'
| | stn='WA'
| +---ENDIF
| +---IF 'WEST VIRGINIA'=st
| | stlst=stlst+', West Virginia'
| | stn='WV'
| +---ENDIF
| +---IF 'WISCONSIN'=st
| | stlst=stlst+', Wisconsin'
| | stn='WI'
| +---ENDIF
| +---IF 'WYOMING'=st
| | stlst=stlst+', Wyoming'
| | stn='WY'
| +---ENDIF
```

| * if stlst is empty, take off last character of entry to see if it matches

01-11-89 15:00:00 CHKSTAT2.PRG
Wed 01-11-89 15:15:18

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of 6
251-273

```
|  +---IF LEN(stlst)=0
|  |      st=SUBSTR(st,1,LEN(st)-1)
|  |      stln=LEN(st)
|  |
|  * if all entry characters removed, set special code, and exit do-while
|  |  +---IF stln=0
|  |  |      ok=.t.
|  |  |      stlst="--,--"
|  |  +---ENDIF
|  |
|  * if stlst has possible names, set ok to true (for ok to leave do-while)
|  +---ELSE
|  |      ok=.t.
|  +---ENDIF
|
|  * end of search for possible matches with state names
+---ENDDO
```

```
    * strip off first two characters to eliminate leading ',
    stlst=SUBSTR(stlst,3)
    st=stn
```

RETURN

01-11-89 15:00:00 CHKSTATE.PRC
Wed 01-11-89 15:15:01

Pg 1
of 1
1-39

```
*****
*- CHKSTATE.PRC -- Last Update 01/11/89
*- Copyright (c) 1988,1989 by John A. Kinast
*- All Rights Reserved
*- written for CERL
*****
*- attempt to decipher state entry
*****
*
stn=""
DO chkstat2

* if ',' is found in list, more than one state name is present
* need to print additional help message
+--IF AT(", ", stlst)>0
|   st=""
|   ok=.f.
|   @ 23,1 CLEAR TO 24,78
|
|   * if special code found, then say that no match found
|   +--IF stlst=","
|   |   @ 23,2 SAY "No match found for the name"
|   |   @ 24,2 SAY "Please check your spelling"
|   |
|   * if regular names are present, display them as possible matches
|   \+--ELSE
|   |   @ 23,2 SAY "Enter the name more completely. Possible matches are:"
|   |   @ 24,2 SAY SUBSTR(stlst,1,76)
|   |
|   +--ENDIF
|
|   * stlst contains only one state name, so it must be a match
+--ELSE
|   * set st to value found when matching entry
|   st=stn
+--ENDIF

* return to called routine
RETURN
```

```
*****
* COALBLD.PRG -- Last update 01/11/89
* Copyright (C) 1988,1989 -- John A. Kinast
* All Rights Reserved
* written expressly for CERL
*****
* build database on coal fields from txt file
*****
*
CLEAR
CLEAR ALL
SET TALK OFF
SET CONSOLE ON
SET DEVICE TO SCREEN
SET MARGIN TO 0

* loop to process user requests
ans=" "
+--DO WHILE ans<> "Q"
|   CLEAR
|   @ 1,0 TO 3,79
|   @ 2,3 SAY "COALBLD database building routine"
|   @ 2,69 SAY DATE()
|   @ 8,15 SAY "Add to COALFIELD database"
|   @ 10,15 SAY "Split COALFIELD database into smaller files"
|   @ 12,15 SAY "Quit COALBUILD program"
|   @ 15,15 SAY "Option (A/S/Q) " + CHR(174) + " " + CHR(175)
|   ans=" "
|   +--DO WHILE AT (ans, "ASQ")=0
|   |   ans=" "
|   |   @ 15,32 GET ans PICTURE "!"
|   |   READ
|   +--ENDDO
|
|=====
| * section for quitting
|
| +--IF ans="Q"
| |   LOOP
| +--ENDIF
|
|=====
| * section for adding to coalfiel.dbf from smaller files
|
| +--IF ans="A"
| |   @ 5,0 CLEAR
| |   @ 8,10 SAY "Adding to the COALFIELD database"
| |   +--IF FILE ("coalfiel.dbf")
```

```

|   |   |   USE coalfiel
|   |   |   +---IF RECCOUNT(>)>0
|   |   |   |   @ 12,10 SAY "The COALFIELD database has " ;
|   |   |   |   +LTRIM(STR(RECCOUNT(>))) + " entries in it."
|   |   |   |   ok=.f.
|   |   |   |   @ 14,10 SAY "Do you want to clear them before ";
|   |   |   |   +"adding? (Y/N)" GET ok PICTURE "Y"
|   |   |   |   READ
|   |   |   |   +---IF ok
|   |   |   |   |   ok=.f.
|   |   |   |   |   @ 16,10 SAY "Are you sure? (Y/N)" GET ok PICTURE "Y"
|   |   |   |   |   READ
|   |   |   |   +---ENDIF
|   |   |   |
|   |   |   * if COALFIEL is to be cleared, zap it, then recreate index files
|   |   |   |   +---IF ok
|   |   |   |   |   SET SAFETY OFF
|   |   |   |   |   ZAP
|   |   |   |   |   INDEX ON state TO coalfiel
|   |   |   |   |   INDEX ON code_no TO coalcode
|   |   |   |   |   SET SAFETY ON
|   |   |   |   |   CLOSE DATABASES
|   |   |   |   |   @ 18,10 SAY "COALFIED database cleared."
|   |   |   |   +---ENDIF
|   |   |   |
|   |   |   * let user know COALFIEL has no entries in it
|   |   |   |   +---ELSE
|   |   |   |   |   @ 16,10 SAY "The COALFIELD database has no entries."
|   |   |   |   +---ENDIF
|   |   |   |
|   |   |   * let user know COALFIEL was not present and will be created, if it can
|   |   |   |   +---ELSE
|   |   |   |   |   @ 12,10 SAY "COALFIEL database file not present. "
|   |   |   |   |   @ 14,10 SAY "It will be built from the first data file."
|   |   |   |   +---ENDIF
|   |   |   |
|   |   |   * wait before clearing screen display
|   |   |   |   ky=" "
|   |   |   |   @ 22,10 SAY "Press any key to continue..." GET ky
|   |   |   |   READ
|   |   |   |
|   |   |   * check with user to make sure he is ready to add
|   |   |   |   @ 5,0 CLEAR
|   |   |   |   ok=.f.
|   |   |   |   @ 8,10 SAY "Ready to add to COALFIEL? (Y/N)" GET ok PICTURE "Y"
|   |   |   |   READ
|   |   |   |   +---IF .NOT. ok
|   |   |   |   |   LOOP
|   |   |   |   +---ENDIF
|   |   |   |

```

```
| * loop through possible file names
| |   @ 10,10 SAY "Searching for COALFIEL data files"
| |   i=1
| |   fc=0
| |   fnd=.f.
| |   +---DO WHILE i<100
| | |   fl="COALFL" +LTRIM(STR(i)) +".DBF"
| | |   @ 12,10 SAY "Looking for " +fl +
| | |   +---IF FILE(fl)
| | | |   fc=fc+1
| | | |   @ 12,10 SAY "Found " +fl +". Adding to COALFIEL."
| | | |   fnd=.t.
| | |   +---IF FILE("coalfiel.dbf")
| | | |   USE coalfiel
| | | |   APPEND FROM &fl
| | |   +---ELSE
| | | |   USE &fl
| | | |   COPY TO coalfiel
| | |   +---ENDIF
| | |   CLOSE DATABASES
| | |   +---ENDIF
| | |   i=i+1
| |   +---ENDDO
|
| * announce to user total files found, then reindex COALFIEL
| |   +---IF fc>0
| | |   @ 14,10 SAY LTRIM(STR(fc)) +" files found."
| | |
| | |   @ 16,10 SAY "Updating index files for COALFIEL."
| | |   @ 17,14 SAY "Indexing coal fields by state"
| | |   USE coalfiel
| | |   SET SAFETY OFF
| | |   INDEX ON state TO coalfiel
| | |   SET SAFETY ON
| | |   @ ROW(),COL() SAY " - done"
| | |
| | |   @ 18,14 SAY "Indexing coal fields by code number"
| | |   SET SAFETY OFF
| | |   INDEX ON code_no TO coalcode
| | |   SET SAFETY ON
| | |   CLOSE DATABASES
| | |   @ ROW(),COL() SAY " - done"
| |
| * let user know that no files were found
| |   +---ELSE
| | |   @ 14,10 SAY "No files found."
| |   +---ENDIF
```



```
| * wait before clearing screen display
| |   ky=" "
| |   @ 22,10 SAY "Press any key to continue..." GET ky
| |   READ
| |   LOOP
| +--ENDIF
|
| * =====
| * section for splitting up coalfiel.dbf into smaller files
|
| +--IF ans="S"
| |   @ 5,0 CLEAR
| |
| | * let user know that COALFIEL was not found, and cannot be split
| | +--IF .NOT. FILE("coalfiel.dbf")
| | |   @ 5,0 CLEAR
| | |   @ 10,10 SAY "COALFIEL.DBF database file was not found."
| | |   @ 12,10 SAY "The file must be present to split it " ;
| | |   +"into smaller data files."
| | |
| | * wait before clearing screen display
| | |   ky=" "
| | |   @ 22,10 SAY "Press any key to continue..." GET ky
| | |   READ
| | |   LOOP
| | +--ENDIF
|
| * proceed with splitting up, if everything is ready
| |   @ 5,0 CLEAR
| |   ok=.f.
| |   @ 8,10 SAY "Ready to split COALFIEL? (Y/N)" GET ok PICTURE "Y"
| |   READ
| |   +---IF .NOT. ok
| |   |   LOOP
| |   +---ENDIF
|
| * loop to split up COALFIEL.dbf into smaller files (700 records each)
| |   @ 8,10 SAY "Splitting COALFIELD database into smaller files."
| |   i=1
| |   USE coalfiel
| |   +--DO WHILE i<100 .AND. .NOT. EOF()
| |   |   fl="COALFL" +LTRIM(STR(i)) +".DBF"
| |   |   @ 12,10 SAY "Creating " +fl +". "
| |   |   SET SAFETY OFF
| |   |   COPY NEXT 700 TO &fl
| |   |   SET SAFETY ON
| |   |   +--IF .NOT. EOF()
| |   |   |   SKIP
| |   |   +--ENDIF
| |   +--DO WHILE
```

01-11-89 15:00:00 COALBLD.PRG
Wed 01-11-89 15:16:01

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```
| | | i=i+1
| | +---ENDDO
| | CLOSE DATABASES
| | @ 14,10 SAY LTRIM(STR(i-1)) +" files created."
| |
| * erase any remaining old data files
| | +---DO WHILE i<100
| | | f1="COALFL" +LTRIM(STR(i)) +".DBF"
| | | +---IF FILE(f1)
| | | | ERASE &f1
| | | +---ENDIF
| | | i=i+1
| | +---ENDDO
| |
| * wait before clearing screen display
| | ky=" "
| | @ 22,10 SAY "Press any key to continue..." GET ky
| | READ
| | +---ENDIF
|
+---ENDDO

CLEAR ALL
SET TALK ON
RETURN
```

01-11-89 15:00:00 COALFIEL.PRG
Wed 01-11-89 15:16:38

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of 2
1-50

```
*****
* COALFIEL.PRG -- Last update 01/11/89
* Copyright (C) 1988,1989 -- John A. Kinast
* All Rights Reserved
* written expressly for CERL
*****
* update database on coal fields
*****
```

```
*
* reset colors to desired values if necessary
SET TALK OFF
DO setcolor
CLEAR ALL
SET BELL OFF
SET CONSOLE ON
SET DEVICE TO SCREEN
SET MARGIN TO 0
ON ESCAPE
```

@ 6,0 SAY ''

TEXT

```
'      @@@@@@  @@@@@@  @@@@  @      @@@@@@@@  @@@@@@  @@@@@@@@  @      @@@@@@@@
'  @      @  @      @  @      @  @      @      @      @      @      @      @
'  @      @      @      @      @      @      @      @      @      @      @
'  @      @      @      @      @      @      @@@@@@  @      @@@@@@  @      @      @
'  @      @      @      @@@@@@@@@@  @      @      @      @      @      @      @
'  @      @      @      @      @      @      @      @      @      @      @
'      @@@@@@  @@@@@@  @      @  @@@@@@@@  @      @@@@@@  @@@@@@@@  @@@@@@@@  @@@@@@@@
```

ENDTEXT

@ 4,0 TO 16,79 double

```
* define operating environment
DO dbenvrn
```

```
* check for index file for coal fields
indxnd= ( FILE("coalfiel"+ending) ) .AND. ( FILE("coalcode"+ending) )
indxnd= indxnd .AND. ( FILE("coaldist"+ending) )
```

!--IF .NOT. indxnd

```
|      @ 17,15 SAY "Index files were not found on startup"
|      @ 18,15 SAY "Please wait while they are created"
```

!--IF .NOT. clipper

| ON ESCAPE abt=.t.

!--ENDIF

| @ ROW()+1,15 SAY "Indexing coal fields by state"

| USE coalfiel

| SET SAFETY OFF

| INDEX ON state TO coalfiel

| SET SAFETY ON

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Wed 01-11-89 15:16:38

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51-93

```
|      @ ROW(),COL() SAY " - done"
|
|      @ ROW()+1,15 SAY "Indexing coal fields by code number"
|      SET SAFETY OFF
|      INDEX ON code_no TO coalcode
|      SET SAFETY ON
|      @ ROW(),COL() SAY " - done"
|
|      @ ROW()+1,15 SAY "Indexing coal fields by distance value"
|      SET SAFETY OFF
|      INDEX ON dist_from TO coaldist
|      SET SAFETY ON
|      CLOSE DATABASES
|      @ ROW(),COL() SAY " - done"
|
|      +---IF NOT clipper
|      |      ON ESCAPE
|      +---ENDIF
|
+---ENDIF

      * clear key entries
      c=1
+---DO WHILE c<>0
|      c=INKEY()
+---ENDDO

      * print message to continue
      @ 24,20 SAY "Press any key to continue..."

      * wait for key press
      c=0
+---DO WHILE c=0
|      c=INKEY()
+---ENDDO

      * run main coalfield routine
      DO coalfld0

      CLEAR ALL
      CLEAR
      SET TALK ON
      RETURN
```

```
*****
* COALFLD0.PRG -- Last update 01/11/89
* Copyright (C) 1988,1989 -- John A. Kinast
* All Rights Reserved
* written expressly for CERL
*****
* update database on coal fields
*****
*
```

```
USE coalfiel INDEX coalfiel, coalcode
SET DELETED ON
GO top
lv=.t.
ans=" "
currec=0
lstrec=0
* loop through options until done.
+--DO WHILE ans<>"Q"
|
| * display coal field screen
|   DO coalscr
|
| * ask for option
|   @ 22,10 SAY "Edit field / Add field / move Forward / move Backward"
|   @ 23,10 SAY "Delete field / change Views / Print field list / Quit"
|   @ 24,10 SAY "Option (E/A/F/B/D/V/P/Q)      " +CHR(174) + " " +CHR(175)
|   ans=" "
|   +--DO WHILE AT(ans,"EAFBDVPQ")=0
|   |   ans=" "
|   |   @ 24,40 GET ans PICTURE "!"
|   |   READ
|   +--ENDDO
|
| * to move forward
|   +--IF ans="F"
|   |   +--IF lv
|   |   |   +--IF .NOT. EOF()
|   |   |   |   SKIP
|   |   |   +--IF EOF()
|   |   |   |   GO BOTTOM
|   |   |   +--ENDIF
|   |   +--ENDIF
|   |   +--ELSE
|   |   |   +--IF .NOT. EOF()
|   |   |   |   SKIP 13
|   |   |   +--IF EOF()
|   |   |   |   GO top
|   |   |   +--ENDIF
|   |   +--ENDIF
```

```

| | | +---ENDIF
| | | +---ENDIF
|
| * to move backward
| | +---IF ans="B"
| | | +---IF lv
| | | | +---IF .NOT. EOF()
| | | | | SKIP -1
| | | | | +---IF BOF()
| | | | | | GO top
| | | | | +---ENDIF
| | | | +---ENDIF
| | | +---ELSE
| | | | +---IF .NOT. EOF()
| | | | | SKIP -13
| | | | | +---IF BOF()
| | | | | | GO BOTTOM
| | | | | +---ENDIF
| | | | +---ENDIF
| | | +---ENDIF
| | +---ENDIF
|
| +---IF ans="D"
| | +---IF .NOT. lv
| | | i=7
| | | @ i,0 SAY " "
| | | ans="+"
| | | @ 22,0 CLEAR
| | | @ 22,5 SAY CHR(24) +CHR(25) +" to move indicator / Delete ";
| | | +"indicated base / Quit without deleting"
| | | @ 23,5 SAY "Option (" +CHR(24) +"/" +CHR(25) +"/D/Q) ";
| | | +CHR(174) +" " +CHR(175)
| | | cq=1
| | | ans=" "
| | | +---DO WHILE ans<>"D" .AND. ans<>"Q"
| | | | @ i,0 SAY CHR(175)+CHR(175)+CHR(175)
| | | | +---IF cq>0
| | | | | sq=" "
| | | | | @ 23,27 GET sq
| | | | | CLEAR GETS
| | | | | @ 23,27 SAY ""
| | | | | cq=0
| | | | +---ENDIF
| | | | +---DO WHILE AT( CHR(cq), "DdQq"+CHR(5)+CHR(24) )=0
| | | | | cq=INKEY()
| | | | +---ENDDO
| | | | +---DO CASE
| | | | | CASE cq=5
| | | | | | sq=CHR(24)
| | | | | CASE cq=24

```

```
| | | | |      sq=CHR(25)
| | | | |      CASE cq=68 .OR. cq=100
| | | | |      sq="D"
| | | | |      ans="D"
| | | | |      CASE cq=81 .OR. cq=113
| | | | |      sq="Q"
| | | | |      ans="Q"
| | | | |      +---ENDCASE
| | | | |      @ 23,27 GET sq
| | | | |      CLEAR GETS
| | | | |      +---IF cq=68 .OR. cq=100 .OR. cq=81 .OR. cq=113
| | | | |      |      LOOP
| | | | |      +---ENDIF
| | | | |      +---IF cq=24
| | | | |      |      +---IF RECNO()<>lstrec
| | | | |      |      |      @ i,0 SAY "    "
| | | | |      |      |      i=i+1
| | | | |      |      |      SKIP
| | | | |      |      +---ENDIF
| | | | |      +---ENDIF
| | | | |      +---IF cq=5
| | | | |      |      +---IF RECNO()<>currec
| | | | |      |      |      @ i,0 SAY "    "
| | | | |      |      |      i=i-1
| | | | |      |      |      SKIP -1
| | | | |      |      +---ENDIF
| | | | |      +---ENDIF
| | | | |      +---ENDDO
| | | | |      currec=RECNO()
| | | | |      +---ENDIF
| | | | |      @ 22,0 CLEAR
|
| * if user wanted to quit from deleting, loop to end
| | | | |      +---IF ans="Q"
| | | | |      |      ans=" "
| | | | |      |      LOOP
| | | | |      +---ENDIF
|
| * check with user whether to delete
| | | | |      +---IF .NOT. EOF()
| | | | |      |      ok=.f.
| | | | |      |      @ 22,15 SAY "Delete this coalfield? (Y/N)" GET ok PICTURE "Y"
| | | | |      |      READ
| | | | |      |      +---IF ok
| | | | |      |      |      @ 23,15 SAY "Are you sure? (Y/N)" GET ok PICTURE "Y"
| | | | |      |      |      READ
| | | | |      |      +---ENDIF
| | | | |      |      +---IF ok
| | | | |      |      |      DELETE
| | | | |      |      |      SKIP
```

```

| | | | +---IF EOF()
| | | | | GO top
| | | | +---ENDIF
| | | +---ENDIF
| | +---ELSE
| | | @ 22,15 SAY "A coalfield must be present to be deleted."
| | | ans=" "
| | | @ 23,15 SAY "Press any key to continue..." GET ans
| | | READ
| | | ans="+"
| | +---ENDIF
| +---ENDIF

| +---IF ans="V"
| | lv =IIF( lv, .f., .t.)
| +---ENDIF

| +---IF ans="P"
| | DO coalprt
| | ans="+"
| +---ENDIF

| * if adding record is wanted
| +---IF ans="A"
| | APPEND BLANK
| * set up to edit blank record
| | ans="E"
| | lv=.t.
| +---ENDIF

| +---IF ans="E"
| | +---IF .NOT. lv
| | | i=7
| | | @ i,0 SAY " "
| | | ans="+"
| | | @ 20,0 CLEAR
| | | @ 22,5 SAY CHR(24) +CHR(25) +" to move indicator / Edit ";
| | | +"indicated base / Quit without editing"
| | | @ 23,5 SAY "Option (" +CHR(24) +"/" +CHR(25) +"/E/Q) ";
| | | +CHR(174) +" " +CHR(175)
| | | cq=1
| | | ans=" "
| | +---DO WHILE ans<>"E" .AND. ans<>"Q"
| | | @ i,0 SAY CHR(175)+CHR(175)+CHR(175)
| | | +---IF cq>0
| | | | sq=" "
| | | | @ 23,27 GET sq
| | | | CLEAR GETS
| | | | @ 23,27 SAY ""
| | | | cq=0

```



```

| | | | +---ENDIF
| | | | +---DO WHILE AT( CHR(cq),"EeQq"+CHR(5)+CHR(24) )=0
| | | | |   cq=INKEY()
| | | | +---ENDDO
| | | | +---DO CASE
| | | | |   CASE cq=5
| | | | |   |   sq=CHR(24)
| | | | |   CASE cq=24
| | | | |   |   sq=CHR(25)
| | | | |   CASE cq=69 .OR. cq=101
| | | | |   |   sq="E"
| | | | |   |   ans="E"
| | | | |   CASE cq=81 .OR. cq=113
| | | | |   |   sq="Q"
| | | | |   |   ans="Q"
| | | | +---ENDCASE
| | | |   @ 23,27 GET sq
| | | |   CLEAR GETS
| | | | +---IF cq=69 .OR. cq=101 .OR. cq=81 .OR. cq=113
| | | | |   LOOP
| | | | +---ENDIF
| | | | +---IF cq=24
| | | | |   +---IF RECNO(<>)strec
| | | | |   |   @ i,0 SAY " "
| | | | |   |   i=i+1
| | | | |   |   SKIP
| | | | |   +---ENDIF
| | | | +---ENDIF
| | | | +---IF cq=5
| | | | |   +---IF RECNO(<>)currec
| | | | |   |   @ i,0 SAY " "
| | | | |   |   i=i-1
| | | | |   |   SKIP -1
| | | | |   +---ENDIF
| | | | +---ENDIF
| | | | +---ENDDO
| | | |   currec=RECNO()
| | | | +---ENDIF
|
| * if user wants to quit out of editing, loop to bottom
| | +---IF ans="Q"
| | |   ans=" "
| | |   LOOP
| | +---ENDIF
|
| * otherwise, proceed with editing
| | lv=.t.
| | ans="C"
| | ok=.f.
| | redraw=.t.

```

```
| |      ttlmsg=.f.  
| |      q=5  
| |      lst=5  
| |      nxt=5  
| |      REPLACE last_chg WITH DATE()  
| |      +--DO WHILE ans="C"  
| |      |  
| |      * display coal field database screen if necessary  
| |      |      +--IF redraw  
| |      |      |      DO coalscr  
| |      |      |      redraw=.f.  
| |      |      +--ENDIF  
| |      |  
| |      * clear screen message area  
| |      |      @ 22,0 CLEAR  
| |      |  
| |      * process entry based on value of q (pointer)  
| |      |      +--DO CASE  
| |      |      |  
| |      *          CASE q=1  
| |      * @ 24,1 clear to 24,78  
| |      * @ 24,2 say 'prompt'  
| |      * ok=.f.  
| |      * do while .not. ok  
| |      *   @ \,\ get \ picture ''  
| |      *   read  
| |      *   ok=.t.  
| |      * enddo  
| |      * lst=  
| |      * nxt=  
| |      |  
| |      * enter state  
| |      |      CASE q=5  
| |      |      |      @ 24,1 CLEAR TO 24,78  
| |      |      |      @ 23,2 SAY 'Enter two-letter state abbreviation or name'  
| |      |      |      ok=.f.  
| |      |      |      +--DO WHILE .NOT. ok  
| |      |      |      |      st=state+SPACE(18)  
| |      |      |      |      stlst=""  
| |      |      |      |      @ 3,10 GET st PICTURE "XXXXXXXXXXXXXXXXXXXXX"  
| |      |      |      |      READ  
| |      |      |      |      rdky=READKEY()  
| |      |      |      |      +--IF rdky=12 .OR. rdky=268  
| |      |      |      |      |      ok=.t.  
| |      |      |      |      |      st=""  
| |      |      |      |      +--ELSE  
| |      |      |      |      |      DO chkstate  
| |      |      |      |      +--ENDIF  
| |      |      |      +--ENDDO  
| |      |      +--IF rdky=12 .OR. rdky=268
```

```
| | | | | st=state
| | | | | DO idstate
| | | | | +---ELSE
| | | | | | REPLACE state WITH st
| | | | | +---ENDIF
| | | | | st=st + " - " + stlst
| | | | | @ 3,10 GET st
| | | | | CLEAR GETS
| | | | | lst=5
| | | | | nxt=10
| | | | |
| * enter location
| | | | | CASE q=10
| | | | | @ 23,2 SAY 'Enter location of coal'
| | | | | ok=.f.
| | | | | +---DO WHILE .NOT. ok
| | | | | | @ 3,47 GET location
| | | | | | READ
| | | | | | ok=.t.
| | | | | +---ENDDO
| | | | | lst=5
| | | | | nxt=15
| | | | |
| * enter county
| | | | | CASE q=15
| | | | | @ 23,2 SAY 'Enter county in which field is located'
| | | | | ok=.f.
| | | | | +---DO WHILE .NOT. ok
| | | | | | @ 4,11 GET county
| | | | | | READ
| | | | | | ok=.t.
| | | | | +---ENDDO
| | | | | lst=10
| | | | | nxt=20
| | | | |
| * get latitude of coal field
| | | | | CASE q=20
| | | | | @ 23,2 SAY 'Enter north latitude of field (dddmss)'
| | | | | ok=.f.
| | | | | +---DO WHILE .NOT. ok
| | | | | | clat=STR(latitude,7)
| | | | | | lat_1 =VAL( SUBSTR(clat,1,3) )
| | | | | | lat_2 =VAL( SUBSTR(clat,4,2) )
| | | | | | lat_3 =VAL( SUBSTR(clat,6,2) )
| | | | | | @ 4,47 GET lat_1 PICTURE "###"
| | | | | | @ 4,51 GET lat_2 PICTURE "##"
| | | | | | @ 4,54 GET lat_3 PICTURE "##"
| | | | | | READ
| | | | | | ok= lat_1>24 .AND. lat_1<73
| | | | | | ok= ok .AND. lat_2>-1 .AND. lat_2<60
```

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351-400

A-26

```
| | | | CASE q=30
| | | | @ 23,2 SAY 'Enter Proximate Analysis, wt %, moisture of coal'
| | | | ok=.f.
| | | | +---DO WHILE .NOT. ok
| | | | | @ 7,15 GET MOISTURE
| | | | | READ
| | | | | ok=( moisture>=0 .AND. moisture<=60 ) .OR. ;
| | | | | READKEY()=12 .OR. READKEY()=268
| | | | | +---IF .NOT. ok
| | | | | | @ 24,1 CLEAR TO 24,78
| | | | | | @ 24,2 SAY "Value should be between 0% and 60%"
| | | | | +---ENDIF
| | | | +---ENDDO
| | | | lst=25
| | | | nxt=35
|
| * get fixed carbon component of coal sample
| | | | CASE q=35
| | | | @ 23,2 SAY 'Enter Proximate Analysis (wt %) ' ;
| | | | + 'of Fixed Carbon on a dry basis'
| | | | +---IF ttmsg
| | | | | @ 24,2 SAY "Volatile, Fixed Carbon, and Ash ";
| | | | | + "values should total 100 %. Please check."
| | | | +---ENDIF
| | | | ok=.f.
| | | | +---DO WHILE .NOT. ok
| | | | | @ 9,19 GET FIXED_CRBN
| | | | | READ
| | | | | ok=( fixed_crbn>=20 .AND. fixed_crbn<=99 ) .OR. ;
| | | | | READKEY()=12 .OR. READKEY()=268
| | | | | +---IF .NOT. ok
| | | | | | @ 24,1 CLEAR TO 24,78
| | | | | | @ 24,2 SAY "Value should be between 20% and 99%"
| | | | | +---ENDIF
| | | | +---ENDDO
| | | | lst=30
| | | | nxt=40
|
| * get volatile component of coal sample
| | | | CASE q=40
| | | | @ 23,2 SAY "Enter Proximate Analysis (wt %) ";
| | | | + "of Volatiles on a dry basis"
| | | | +---IF ttmsg
| | | | | @ 24,2 SAY "Volatiles, Fixed Carbon, and Ash ";
| | | | | + "values should total 100 %. Please check."
| | | | +---ENDIF
| | | | ok=.f.
| | | | +---DO WHILE .NOT. ok
| | | | | @ 9,41 GET VOLATILE
| | | | | READ
```

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451-500

A-28

```
| | | | CASE q=55
| | | |   @ 23,2 SAY 'Enter hydrogen (%) on a dry basis'
| | | |   ok=.f.
| | | | +--DO WHILE .NOT. ok
| | | | |   @ 12,36 GET hydrogen
| | | | |   READ
| | | | |   ok=( hydrogen>=0 .AND. hydrogen<=30 ) .OR. ;
| | | | |   READKEY()=12 .OR. READKEY()=268
| | | | +--IF .NOT. ok
| | | | |   @ 23,1 CLEAR TO 24,78
| | | | |   @ 23,2 SAY "Value should be between 0% and 30%"
| | | | +--ENDIF
| | | | +--ENDDO
| | | |   lst=50
| | | |   nxt=60
| | | |
| | | | * get nitrogen (ultimate analysis)
| | | |   CASE q=60
| | | |   @ 23,2 SAY 'Enter nitrogen (%) on a dry basis'
| | | |   ok=.f.
| | | | +--DO WHILE .NOT. ok
| | | | |   @ 12, 57 GET nitrogen
| | | | |   READ
| | | | |   ok=( nitrogen>=0 .AND. nitrogen<=30 ) .OR. ;
| | | | |   READKEY()=12 .OR. READKEY()=268
| | | | +--IF .NOT. ok
| | | | |   @ 24,1 CLEAR TO 24,78
| | | | |   @ 24,2 SAY "Value should be between 0% and 30%"
| | | | +--ENDIF
| | | | +--ENDDO
| | | |   lst=55
| | | |   nxt=62
| | | |
| | | | * get sulfur (ultimate analysis)
| | | |   CASE q=62
| | | |   @ 23,2 SAY 'Enter sulfur (%) on a dry basis'
| | | |   ok=.f.
| | | | +--DO WHILE .NOT. ok
| | | | |   @ 13,13 GET sulfur
| | | | |   READ
| | | | |   ok=( sulfur>=0 .AND. sulfur<=20 ) .OR. ;
| | | | |   READKEY()=12 .OR. READKEY()=268
| | | | +--IF .NOT. ok
| | | | |   @ 24,1 CLEAR TO 24,78
| | | | |   @ 24,2 SAY "Value should be between 0% and 20%"
| | | | +--ENDIF
| | | | +--ENDDO
| | | |   lst=60
| | | |   nxt=64
```

```
| * get oxygen (ultimate analysis)
| | | | CASE q=64
| | | | @ 23,2 SAY 'Enter oxygen (%) on a dry basis'
| | | | ok=.f.
| | | | +---DO WHILE .NOT. ok
| | | | | @ 13,36 GET oxygen
| | | | | READ
| | | | | ok=( oxygen>=0 .AND. oxygen<=50 ) .OR. ;
| | | | | READKEY()=12 .OR. READKEY()=268
| | | | +---IF .NOT. ok
| | | | | @ 24,1 CLEAR TO 24,78
| | | | | @ 24,2 SAY "Value should be between 0% and 50%"
| | | | +---ENDIF
| | | | +---ENDDO
| | | | lst=62
| | | | nxt=66
|
| * get gross calorific value
| | | | CASE q=66
| | | | @ 23,2 SAY 'Enter Gross Calorific Value (dry)'
| | | | ok=.f.
| | | | +---DO WHILE .NOT. ok
| | | | | @ 16,34 GET hhv_dry
| | | | | READ
| | | | | ok=( hhv_dry>=5000 .AND. hhv_dry<=20000 ) .OR. ;
| | | | | READKEY()=12 .OR. READKEY()=268 .OR. hhv_dry=0
| | | | +---IF .NOT. ok
| | | | | @ 24,1 CLEAR TO 24,78
| | | | | @ 24,2 SAY "Value should be between 5000 ";
| | | | | | "and 20000 Btu/lb"
| | | | +---ENDIF
| | | | +---ENDDO
| | | | lst=64
| | | | nxt=70
|
| * get rank of coal sample
| | | | CASE q=70
| | | | @ 22,2 SAY "Enter Rank of coal field -- Bituminous ";
| | | | | "/ Sub-Bituminous / Lignite / "
| | | | @ 23,6 SAY "Anthracite / Semi-Anthracite -- (B/SB/L/A/SA)"
| | | | ok=.f.
| | | | +---DO WHILE .NOT. ok
| | | | | @ 16,62 GET rank PICTURE "!!!!!"
| | | | | READ
| | | | | crank=LTRIM(TRIM(rank))
| | | | | REPLACE rank WITH crank
| | | | | crank="|" +crank +"|"
| | | | | ok= crank $ " |B| |SB| |L| |A| |SA| " .OR. ;
| | | | | READKEY()=12
| | | | +---IF .NOT. ok
```



```
| | | | | @ 24,2 SAY "Allowable values are: B SB L A SA"
| | | | | +---ENDIF
| | | | | +---ENDDO
| | | | |     lst=66
| | | | |     nxt=75
| | | | |
| * get ash fusion temperature (softening value, h=1/2w)
| | | | | CASE q=75
| | | | |     @ 23,2 SAY "Enter ash fusion temperature, softening value"
| | | | |     ok=.f.
| | | | |     +---DO WHILE .NOT. ok
| | | | |         @ 17,32 GET aft_s
| | | | |         READ
| | | | |         ok= ( aft_s>1000 .AND. aft_s<3500 ) .OR. ;
| | | | |         READKEY()=12 .OR. READKEY()=268 .OR. aft_s=0
| | | | |     +---IF .NOT. ok
| | | | |         @ 24,1 CLEAR TO 24,78
| | | | |         @ 24,2 SAY "Value should be between 1000" ;
| | | | |         +CHR(248) +"F and 3500" +CHR(248) +"F"
| | | | |     +---ENDIF
| | | | |     +---ENDDO
| | | | |     lst=70
| | | | |     nxt=80
| | | | |
| * get hardgrove grindability index of coal sample
| | | | | CASE q=80
| | | | |     @ 23,2 SAY 'Enter the Hardgrove Grindability Index for the
| | | | |     coal'
| | | | |     ok=.f.
| | | | |     +---DO WHILE .NOT. ok
| | | | |         @ 18, 35 GET HRDGRV_GRD
| | | | |         READ
| | | | |         ok=( hrdgrv_grd>=20 .AND. hrdgrv_grd<=120 ) .OR. ;
| | | | |         READKEY()=12 .OR. READKEY()=268 .OR. hrdgrv_grd=0
| | | | |     +---IF .NOT. ok
| | | | |         @ 24,1 CLEAR TO 24,78
| | | | |         @ 24,2 SAY "Value should be between 20 and 120"
| | | | |     +---ENDIF
| | | | |     +---ENDDO
| | | | |     lst=75
| | | | |     nxt=85
| | | | |
| * get free swelling index for the coal sample
| | | | | CASE q=85
| | | | |     @ 23,2 SAY 'Enter the Free Swelling Index for the coal'
| | | | |     ok=.f.
| | | | |     +---DO WHILE .NOT. ok
| | | | |         @ 18,65 GET FREE_SWELL
| | | | |         READ
| | | | |         ok=( free_swell>=0 .AND. free_swell<10 ) .OR. ;
```

```
| | | | | READKEY()=12 .OR. READKEY()=268
| | | | | +---IF .NOT. ok
| | | | | | @ 24,1 CLEAR TO 24,78
| | | | | | @ 24,2 SAY "Value should be between 0 and 9"
| | | | | +---ENDIF
| | | | | +---ENDDO
| | | | | | 1st=80
| | | | | | nxt=90
| | | | |
| | | | | * get the code number for the coal
| | | | | CASE q=90
| | | | | | @ 23,2 SAY 'Enter the Code Number for the coal'
| | | | | | ok=.f.
| | | | | | mcode_no=code_no
| | | | | +---DO WHILE .NOT. ok
| | | | | | mcode_no=SUBSTR(mcode_no+REPLICATE(" ",20),1,20)
| | | | | | @ 19,18 GET mcode_no
| | | | | | READ
| | | | | | mcode_no=UPPER(LTRIM(mcode_no))
| | | | |
| | | | | * check to see that the code number is unique
| | | | | +---IF LEN(TRIM(mcode_no))>0
| | | | | | rc=RECNO()
| | | | | | SET ORDER TO 2
| | | | | | SEEK mcode_no
| | | | | +---IF rc=RECNO() .OR. EOF()
| | | | | | ok=.t.
| | | | | +---ELSE
| | | | | | | @ 24,0
| | | | | | | @ 24,2 SAY "Code number must be unique. ";
| | | | | | | + "Your entry is a duplicate."
| | | | | +---ENDIF
| | | | | | SET ORDER TO 1
| | | | | | GOTO rc
| | | | | +---ELSE
| | | | | | | @ 24,0
| | | | | | | @ 24,2 SAY "Code number must not be blank."
| | | | | +---ENDIF
| | | | | +---ENDDO
| | | | | | 1st=85
| | | | | | nxt=95
| | | | |
| | | | | * get any notes/comments
| | | | | CASE q=95
| | | | | | @ 24,2 SAY "Enter any pertinent comments"
| | | | | | ok=.f.
| | | | | +---DO WHILE .NOT. ok
| | | | | | | @ 20,11 GET cmmnt
| | | | | | | READ
| | | | | | | ok=.t.
```

```

| | | | +--ENDDO
| | | |     lst=90
| | | |     nxt=101
| | | |
| | | | +--ENDCASE
| | | |
| * find out what key was used to finish entry
| | | |     rdky=READKEY()
| | | |     rdky =IIF( rdky>255, rdky-256, rdky)
| | | |
| * if key was <Up arrow> or <Pg Up>, go to last (previous entry)
| | | |     +---IF rdky=4 .OR. rdky=6
| | | |         q=lst
| * otherwise, go to next entry
| | | |     +---ELSE
| | | |         q=nxt
| | | |     +---ENDIF
| | | |
| * if <ESC> key was hit, set q to ask whether they are done
| | | |     +---IF rdky=12
| | | |         q=101
| | | |     +---ENDIF
| | | |
| * check to see if volatile+fixed carbon+ash = 100%
| | | |     ttlprox =volatile +fixed_crbn +ash
| | | |     +---IF ttlprox<>0
| | | |         cttlprox =STR(ttlprox,7,2)
| | | |         +---IF cttlprox<>" 100.00"
| | | |             @ 9,68 SAY "not = 100%"
| | | |         +---ELSE
| | | |             @ 9,68 SAY "          "
| | | |         +---ENDIF
| | | |     +---ENDIF
| | | |
| * check to see if ultimate analysis + ash = 100%
| | | |     ttlult =oxygen +sulfur +nitrogen +hydrogen +carbon
| | | |     +---IF ttlult<>0
| | | |         cttlult =STR(ttlult+ash,7,2)
| | | |         +---IF cttlult<>" 100.00"
| | | |             @ 12,68 SAY "not = 100%"
| | | |         +---ELSE
| | | |             @ 12,68 SAY "          "
| | | |         +---ENDIF
| | | |     +---ENDIF
| | | |
| * if done with entries, make sure proximate and ultimate equal 100%
| | | |     @ 22,0 CLEAR
| | | |     +---IF q>100
| | | |         +---IF cttlprox<>" 100.00"
| | | |             @ 22,5 SAY "Proximate analysis (volatiles, fixed ";

```

CLOSE DATABASES
RETURN

```
*****
* COALPRT.PRG -- Last update 10/25/88
* Copyright (C) 1988 -- John A. Kinast
* All Rights Reserved
* written expressly for CERL
*****
* printout of coal field information
*****
*
* check to see if any records present
+--IF RECCOUNT()=0
|   @ 22,0 CLEAR
|   @ 22,10 SAY "At least one field must be in file to select print option."
|   ans=" "
|   @ 23,10 SAY "Press any key to continue..." GET ans
|   READ
|   ans=" "
|   RETURN
+--ENDIF

* if running stand-alone, values won't be defined
+--IF TYPE("topmgn")="U"
|   topmgn=0
+--ENDIF
+--IF TYPE("btmmgn")="U"
|   btmmgn=58
+--ENDIF
+--IF TYPE("lftmgn")="U"
|   lftmgn=0
+--ENDIF

* store current record being display so it isn't lost
rc=RECNO()

* set up variables
stlst=''
pg=0

* find out from user how many fields to print
@ 22,0 CLEAR
@ 22,4 SAY "Print field that is Displayed, fields for one State, ";
+"All fields, or"
@ 23,4 SAY "Quit (cancel print) -- Option ( D / S / A / Q )      ";
+CHR(174) +" " +CHR(175)
ans=" "
+--DO WHILE AT(ans,"DSAQ")=0
|   ans=" "
|   @ 23,58 GET ans PICTURE "!"
|   READ
```

+++ENDDO

* if quit is selected, just return without changing a thing

```
+++IF ans="Q"
|   ans=" "
|   RETURN
+++ENDIF
```

* ask questions to see what state to print

```
+++IF ans="S"
|   @ 22,0 CLEAR TO 24,79
|   @ 22,5 SAY "Enter state for coal information printout:"
|
|   * get verified state entry
|   st=SPACE(20)
|   ok=.f.
|   +--DO WHILE .NOT. ok
|   |   st=SPACE(20)
|   |   stlst=""
|   |   @ 22,48 GET st PICTURE "XXXXXXXXXXXXXXXXXXXXX"
|   |   READ
|   |   rdky=READKEY()
|   |   +--IF rdky=12
|   |   |   RETURN
|   |   +--ENDIF
|   |   +--IF LEN(TRIM(st))>0
|   |   |   DO chkstate
|   |   +--ENDIF
|   +--ENDDO
|   mst=TRIM(st)
+++ENDIF
```

* if single state wanted, go to first entry

```
+++IF ans="S"
|   SEEK mst
+++ENDIF
```

* if all fields to be printed, go to top of file

```
+++IF ans="A"
|   GO top
+++ENDIF
```

* set escape off to be able to trap it with inkey statement

```
SET ESCAPE OFF
abt=.f.
```

* print message about printing information

```
@ 22,0 CLEAR
@ 23,10 SAY "Printing in progress. Press <ESC> to quit early..."
```

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```
* set up printer
SET MARGIN TO lftmgn
SET DEVICE TO PRINT
prevst=""

* loop for printing coal information
+--DO WHILE .NOT. EOF() .AND. .NOT. abt
|
| * first check for keys pressed
|   c=1
| * loop until no more keys present
|   +--DO WHILE c<>0
|     |   c=INKEY()
| * if key pressed was escape, then set flag to abort early
|     |   +---IF c=27
|     |     |   abt=.t.
|     |   +---ENDIF
|   +---ENDDO
|
| * if abort flag set, jump to bottom of loop
|   +---IF abt
|     |   LOOP
|   +---ENDIF
|
| * advance to next page for a new state
|   +---IF prevst<>state
|     |   st=state
|     |   DO chkstate
|     |   hdg="Coal field information printout for: " +state + " - ";
|     |   +stlst
|     |   pg=pg+1
|     |   @ topmgn,0 SAY hdg
|     |   @ PROW(),60 SAY "Page " +LTRIM(STR(pg))
|     |   prevst=state
|   +---ENDIF
|
| * if at the bottom of the page, skip to the next one
|   +---IF pg=0 .OR. PROW()+14>btmmgn
|     |   pg=pg+1
|     |   @ topmgn,0 SAY hdg
|     |   @ PROW(),60 SAY "Page " +LTRIM(STR(pg))
|   +---ENDIF
|
| * print the entry
|   @ PROW()+2,0 SAY "Location: " +location
|   @ PROW(),56 SAY "Last changed: " +DTC(last_chg)
|   @ PROW()+1,0 SAY "County: "+county
|   @ PROW(),42 SAY "Lat:"
|   cl=STR(latitude,7)
|   @ PROW(),47 SAY SUBSTR(cl,1,3) + "d " +SUBSTR(cl,4,2) + "m " ;
```

```
|      +SUBSTR(cl,6,2) +"s"  
|      @ PROW(),62 SAY "Long:"  
|      cl=STR(longitude,7)  
|      @ PROW(),68 SAY SUBSTR(cl,1,3) +"d " +SUBSTR(cl,4,2) +"m " ;  
|      +SUBSTR( cl,6,2) +"s"  
|      @ PROW()+1,2 SAY "Proximate Analysis"  
|      @ PROW(),49 SAY "Moisture:"  
|      @ PROW(),59 SAY moisture  
|      @ PROW(),66 SAY "% (as delivered)"  
|      @ PROW()+1,5 SAY "Fixed Carbon:"  
|      @ PROW(),19 SAY fixed_crbn  
|      @ PROW(),26 SAY "% Volatile:"  
|      @ PROW(),41 SAY volatile  
|      @ PROW(),48 SAY "% Ash:"  
|      @ PROW(),58 SAY ash  
|      @ PROW(),65 SAY "% --- (dry basis)"  
|      @ PROW()+1,2 SAY "Ultimate Analysis -- (dry basis)"  
|      @ PROW()+1,5 SAY "Carbon:"  
|      @ PROW(),13 SAY carbon  
|      @ PROW(),19 SAY "%"  
|      @ PROW(),26 SAY "Hydrogen:"  
|      @ PROW(),36 SAY hydrogen  
|      @ PROW(),42 SAY "%"  
|      @ PROW(),47 SAY "Nitrogen:"  
|      @ PROW(),57 SAY nitrogen  
|      @ PROW(),63 SAY "%"  
|      @ PROW()+1,5 SAY "Sulfur:"  
|      @ PROW(),13 SAY sulfur  
|      @ PROW(),19 SAY "%"  
|      @ PROW(),28 SAY "Oxygen:"  
|      @ PROW(),36 SAY oxygen  
|      @ PROW(),42 SAY "%"  
|      @ PROW()+1,2 SAY "Miscellaneous"  
|      @ PROW()+1,5 SAY "Gross Calorific Value (dry):"  
|      @ PROW(),34 SAY HHV_dry  
|      @ PROW(),41 SAY "Btu/lb"  
|      @ PROW(),56 SAY "Rank:"  
|      @ PROW(),62 SAY RANK  
|      @ PROW()+1,5 SAY "Hemispherical Temperature:"  
|      @ PROW(),39 SAY aft_s  
|      @ PROW(),45 SAY "F (H=1/2W, reducing)"  
|      @ PROW()+1,5 SAY "Hardgrove Grindability Index:"  
|      @ PROW(),35 SAY HRDGRV_GRD  
|      @ PROW(),44 SAY "Free Swelling Index:"  
|      @ PROW(),65 SAY FREE_SWELL  
|      @ PROW()+1,5 SAY "Code Number:"  
|      @ PROW(),18 SAY CODE_NO  
|      @ PROW()+1,5 SAY "Note:"  
|      @ PROW(),11 SAY cmmnt
```


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```
| * skip to next entry
|   SKIP
|
| * if only one state wanted, check to see if a new state has shown up
|   +---IF ans="S"
| * if skip has moved to a new state, go to bottom, then one past for
| * hitting the EOF (end-of-file)
|   |   +---IF mst<>state
|   |   |       GO BOTTOM
|   |   |       SKIP
|   |   +---ENDIF
|   +---ENDIF
|
| * if only the displayed field is wanted, skip to bottom
|   +---IF ans="D"
|   |       GO BOTTOM
|   |       SKIP
|   +---ENDIF
|
+---ENDDO

* go back to original record being displayed
GOTO rc

* move back to top of page, and reset values back to normal
EJECT
SET ESCAPE ON
SET DEVICE TO SCREEN
SET MARGIN TO 0
RETURN
```

```
*****
* COALSCR.PRG -- Last update 01/11/89
* Copyright (C) 1988,1989 -- John A. Kinast
* All Rights Reserved
* written expressly for CERL
*****
* screen drawing for coal fields
*****
*
```

```
* display long view of coal field
+--IF lv
|
|   CLEAR
|   @ 1,0 TO 21,79 double
|   @ 5,1 TO 5,78 DOUBLE
|   @ 10,1 TO 10,78 DOUBLE
|   @ 14,1 TO 14,78 DOUBLE
|   @ 8,1 TO 8,7
|   @ 8,21 TO 8,78
|   @ 2,2 SAY "Coal field location"
|   @ 2,54 SAY "Last changed: "
|   @ 3,3 SAY "State:"
|   @ 3,37 SAY "Location:"
|   @ 4,3 SAY "County:"
|   @ 4,42 SAY [Lat:    ] +CHR(248) +[ '  " ]
|   @ 4,61 SAY [Long:   ] +CHR(248) +[ '  " ]
|   @ 6,2 SAY "Proximate Analysis"
|   @ 7,5 SAY "Moisture:      % (as delivered)"
|   @ 8,8 SAY "( dry basis )"
|   @ 9,5 SAY "Fixed Carbon:"
|   @ 9,26 SAY "%    Volatile:"
|   @ 9,48 SAY "%    Ash:"
|   @ 9,65 SAY "%"
|   @ 11,2 SAY "Ultimate Analysis -- (dry basis)"
|   @ 12,5 SAY "Carbon:      %"
|   @ 12,26 SAY "Hydrogen:    %"
|   @ 12,47 SAY "Nitrogen:    %"
|   @ 13,5 SAY "Sulfur:      %"
|   @ 13,28 SAY "Oxygen:     %"
|   @ 15,2 SAY "Miscellaneous"
|   @ 16,5 SAY "Gross Calorific Value (dry):      Btu/lb"
|   @ 16,56 SAY "Rank:"
|   @ 17,5 SAY "Hemispherical Temperature:      " ;
|   +CHR(248) +"F (H=" +CHR(171) +"W, reducing)"
|   @ 18,5 SAY "Hardgrove Grindability Index:"
|   @ 18,44 SAY "Free Swelling Index:"
|   @ 19,5 SAY "Code Number:"
|   @ 20,5 SAY "Note:"
|
| * display values only if present
```

```
|  +---IF .NOT. EOF()
|  |      @ 2,68 SAY last_chg
|  |      st=state
|  |      stlst=""
|  |      DO idstate
|  |      st=st+" - "+stlst
|  |      @ 3,10 GET st
|  |      @ 3,47 GET location
|  |      @ 4,11 GET county
|  |      clat=STR(latitude,7)
|  |      lat_1=SUBSTR(clat,1,3)
|  |      lat_2=SUBSTR(clat,4,2)
|  |      lat_3=SUBSTR(clat,6,2)
|  |      @ 4,47 GET lat_1
|  |      @ 4,51 GET lat_2
|  |      @ 4,54 GET lat_3
|  |      clong=STR(longitude,7)
|  |      clo_1=SUBSTR(clong,1,3)
|  |      clo_2=SUBSTR(clong,4,2)
|  |      clo_3=SUBSTR(clong,6,2)
|  |      @ 4,67 GET clo_1
|  |      @ 4,71 GET clo_2
|  |      @ 4,74 GET clo_3
|  |      @ 7,15 GET moisture
|  |      @ 9,19 GET fixed_crbn
|  |      @ 9,41 GET volatile
|  |      @ 9,58 GET ash
|  |      @ 12,13 GET carbon
|  |      @ 12,36 GET hydrogen
|  |      @ 12,57 GET nitrogen
|  |      @ 13,13 GET sulfur
|  |      @ 13,36 GET oxygen
|  |      @ 16,34 GET HHV_dry
|  |      @ 16,62 GET RANK
|  |      @ 17,32 GET aft_s
|  |      @ 18,35 GET HRDCRV_GRD
|  |      @ 18,65 GET FREE_SWELL
|  |      @ 19,18 GET CODE_NO
|  |      @ 20,11 GET cmmnt
|  |      CLEAR GETS
|  |      currec=RECNO()
|  +---ELSE
|  |      currec=0
|  +---ENDIF
|
|  * display short view of coal fields
+---ELSE
|      CLEAR
|      @ 1,0 TO 4,79 double
|      @ 2,3 SAY "Coal Field Information Management Program"
```

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```
|      @ 3,3 SAY "Condensed View of Coal Fields"
|      @ 2,69 SAY DATE()
|      @ 6,2 SAY "State   Rank   County           Location"
|      +---IF .NOT. EOF()
|      |      currec=RECNO()
|      |      i=7
|      |      +---DO WHILE .NOT. EOF() .AND. i<20
|      |      |      @ i,3 GET state
|      |      |      @ i,10 GET rank
|      |      |      @ i,18 GET county
|      |      |      @ i,44 GET location
|      |      |      CLEAR GETS
|      |      |      i=i+1
|      |      |      lstrec=RECNO()
|      |      |      SKIP
|      |      +---ENDDO
|      |      GOTO currec
|      +---ELSE
|      |      currec=0
|      +---ENDIF
|      @ 21,0 TO 21,79 double
+---ENDIF

RETURN
```

01-11-89 15:00:00 DBENVRN.PRG
Wed 01-11-89 15:19:49

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of 1
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```
*****
* DBENVRN.PRG -- Last update 01/11/89
* Copyright (C) 1988,1989 -- John A. Kinast
* All Rights Reserved
*****
* define database environment for the system
*****
*
PUBLIC fox, clipper, ending

* define ending of index files based on operating environment
ending=""

* fox is .t. if run under FoxBASE+, otherwise .f.
+--IF fox
|   ending=".IDX"
+--ENDIF

* clipper is .t. if run under Clipper, otherwise .f.
+--IF clipper
|
| * function returns index file ending based on how program has been linked.
| * returns ".NDX" if ndx.obj was linked to produce dBASE III+
| *   compatible index files
| * returns ".NTX" if ndx.obj not linked, which results in standard
| *   Clipper index files
|   ending=indexext()
|
| * readexit function with .t. as parameter sets Clipper to use
| * up-arrow and down-arrow keys to exit from variable READS
|   c=readexit(.t.)
+--ENDIF

* if nothing was assigned by other two routines, it must be running
* under dBASE III+, meaning ".NDX" (standard index) files used
+--IF LEN(ending)=0
|   ending=".NDX"
+--ENDIF

RETURN
```

01-11-89 15:00:00 IDSTATE.PRG
Wed 01-11-89 15:19:58

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```
*****
*- IDSTATE.PRG -- Last Update 01/11/89
*- Copyright (c) 1988,1989 by John A. Kinast
*- All Rights Reserved
*- written for CERL
*****
```

```
*- using st, get state name
*****
```

```
* convert state entry to upper case, set up length and flag
st=UPPER(LTRIM(TRIM(st)))
stlst=""
```

```
+--DO CASE
```

```
| CASE st='AL'
|   stlst='Alabama'
| CASE st='AK'
|   stlst='Alaska'
| CASE st='AR'
|   stlst='Arkansas'
| CASE st='AZ'
|   stlst='Arizona'
| CASE st='CA'
|   stlst='California'
| CASE st='CO'
|   stlst='Colorado'
| CASE st='CT'
|   stlst='Connecticut'
| CASE st='DC'
|   stlst='District of Columbia'
| CASE st='DE'
|   stlst='Delaware'
| CASE st='FL'
|   stlst='Florida'
| CASE st='GA'
|   stlst='Georgia'
| CASE st='HI'
|   stlst='Hawaii'
| CASE st='ID'
|   stlst='Idaho'
| CASE st='IL'
|   stlst='Illinois'
| CASE st='IN'
|   stlst='Indiana'
| CASE st='IA'
|   stlst='Iowa'
| CASE st='KS'
|   stlst='Kansas'
| CASE st='KY'
|   stlst='Kentucky'
```

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Wed 01-11-89 15:19:58

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```
| CASE st='LA'  
|   stlst='Louisiana'  
| CASE st='ME'  
|   stlst='Maine'  
| CASE st='MD'  
|   stlst='Maryland'  
| CASE st='MA'  
|   stlst='Massachusetts'  
| CASE st='MI'  
|   stlst='Michigan'  
| CASE st='MN'  
|   stlst='Minnesota'  
| CASE st='MS'  
|   stlst='Mississippi'  
| CASE st='MO'  
|   stlst='Missouri'  
| CASE st='MT'  
|   stlst='Montana'  
| CASE st='NE'  
|   stlst='Nebraska'  
| CASE st='NV'  
|   stlst='Nevada'  
| CASE st='NH'  
|   stlst='New Hampshire'  
| CASE st='NJ'  
|   stlst='New Jersey'  
| CASE st='NM'  
|   stlst='New Mexico'  
| CASE st='NY'  
|   stlst='New York'  
| CASE st='NC'  
|   stlst='North Carolina'  
| CASE st='ND'  
|   stlst='North Dakota'  
| CASE st='OH'  
|   stlst='Ohio'  
| CASE st='OK'  
|   stlst='Oklahoma'  
| CASE st='OR'  
|   stlst='Oregon'  
| CASE st='PA'  
|   stlst='Pennsylvania'  
| CASE st='RI'  
|   stlst='Rhode Island'  
| CASE st='SC'  
|   stlst='South Carolina'  
| CASE st='SD'  
|   stlst='South Dakota'  
| CASE st='TX'  
|   stlst='Texas'
```

01-11-89 15:00:00 IDSTATE.PRG
Wed 01-11-89 15:19:58

Pg 3
of 3
101-120

```
| CASE st='TN'  
|   stlst='Tennessee'  
| CASE st='US'  
|   stlst='United States'  
| CASE st='UT'  
|   stlst='Utah'  
| CASE st='VT'  
|   stlst='Vermont'  
| CASE st='VA'  
|   stlst='Virginia'  
| CASE st='WA'  
|   stlst='Washington'  
| CASE st='WV'  
|   stlst='West Virginia'  
| CASE st='WI'  
|   stlst='Wisconsin'  
| CASE st='WY'  
|   stlst='Wyoming'  
+--ENDCASE  
RETURN
```


01-11-89 15:00:00 SETCOLOR.PRG
Wed 01-11-89 15:20:18

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Of 1
1-23

```
*****
*- SETCOLOR.PRG -- Last Update 01/11/89
*- Copyright (c) 1988,1989 by John A. Kinast
*- All Rights Reserved
*****
*- routine to set colors based on database entry
*****
*
* reset colors to desired values if necessary
+--IF FILE("colors.dbf")
|   USE colors
|   +--IF RECCOUNT(>)>0
|   |   c_lf=TRIM(lf g)
|   |   c_lb=TRIM(lb g)
|   |   c_hf=TRIM(hf g)
|   |   c_hb=TRIM(hb g)
|   |   c_bd=TRIM(br dr)
|   |   SET COLOR TO &c_lf./&c_lb., &c_hf./&c_hb., &c_bd
|   +--ENDIF
+--ENDIF
RELEASE ALL LIKE c_??
CLEAR
RETURN
```

Appendix B: United States Geological Survey Coal Properties Data Listing

| | |
|--|-------|
| Coal Field Information Printout for AK - Alaska | B-5 |
| Coal Field Information Printout for AL - Alabama | B-11 |
| Coal Field Information Printout for AR - Arkansas | B-17 |
| Coal Field Information Printout for AZ - Arizona | B-21 |
| Coal Field Information Printout for CO - Colorado | B-25 |
| Coal Field Information Printout for GA - Georgia | B-31 |
| Coal Field Information Printout for IA - Iowa | B-37 |
| Coal Field Information Printout for ID - Idaho | B-41 |
| Coal Field Information Printout for IL - Illinois | B-45 |
| Coal Field Information Printout for IN - Indiana | B-49 |
| Coal Field Information Printout for KS - Kansas | B-57 |
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| Coal Field Information Printout for MD - Maryland | B-93 |
| Coal Field Information Printout for MI - Michigan | B-97 |
| Coal Field Information Printout for MO - Missouri | B-101 |
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| Coal Field Information Printout for NE - Nebraska | B-127 |
| Coal Field Information Printout for NM - New Mexico | B-131 |
| Coal Field Information Printout for NV - Nevada | B-135 |
| Coal Field Information Printout for OH - Ohio | B-139 |
| Coal Field Information Printout for OK - Oklahoma | B-147 |
| Coal Field Information Printout for PA - Pennsylvania | B-153 |
| Coal Field Information Printout for TN - Tennessee | B-163 |
| Coal Field Information Printout for TX - Texas | B-169 |
| Coal Field Information Printout for UT - Utah | B-173 |
| Coal Field Information Printout for VA - Virginia | B-179 |
| Coal Field Information Printout for WA - Washington | B-203 |
| Coal Field Information Printout for WV - West Virginia | B-207 |
| Coal Field Information Printout for WY - Wyoming | B-239 |

| <u>Table Title</u> | <u>Description</u> |
|--------------------|---|
| Location | Either the name of the mine or a description of the type of mine. |
| County | County in which the coal field is located. |
| Code Number | A unique number given to the entry for later identification. (In the case of the original data, the United States Geological Survey number assigned to the entry.) |
| Latitude | The north latitude of the coal field in the format DDDMMSS, where DDD is in degrees, MM is in minutes, SS is in seconds. |
| Longitude | The west longitude of the coal field in the format DDDMMSS, where DDD is in degrees, MM is in minutes, SS is in seconds. |
| Rank | The rank, or type, of the coal: <div style="margin-left: 100px;"> B = bituminous SB = sub-bituminous L = lignite A = anthracite SA = semi-anthracite </div> |
| Htg Val | Heating value of the dry coal in Btu/lb. |
| Last Chg | Date the entry was last changed. |
| Moisture | Moisture fraction of the coal as delivered, in percent, from the proximate analysis. |
| Volatiles | Fraction of volatiles in the coal on a dry basis, in percent, from the proximate analysis. |
| Fxd Crbn | Fraction of fixed carbon in the coal on a dry basis, in percent, from the proximate analysis. |
| Ash | Fraction of ash in the coal on a dry basis, in percent, from the proximate analysis. |
| Carbon | Fraction of carbon in the coal on a dry basis, in percent, from the ultimate analysis. |
| Hydrogen | Fraction of hydrogen in the coal on a dry basis, in percent, from the ultimate analysis. |
| Sulfur | Fraction of sulfur in the coal on a dry basis, in percent, from the ultimate analysis. |
| Oxygen | Fraction of oxygen in the coal on a dry basis, in percent, from the ultimate analysis. |
| Nitrogen | Fraction of nitrogen in the coal on a dry basis, in percent, from the ultimate analysis. |
| Hardgrove | Hardgrove grindability index of the coal. |
| Free Swell | Free swelling index of the coal. |
| Hemi Temp | Hemispherical temperature of the coal, in °F; defined as the softening temperature at which $H = 1/2 W$ |

Coal Field Information Printout for

AK - Alaska

Coal Field Information Printout for: AK - Alaska

| Location | | County | | Code Number | | Latitude | Longitude | Rank | Htg Val | Last Chg |
|--------------------|-----------|----------|-------------------------|-------------|----------|----------|-----------|----------|-----------|-----------|
| Moisture | Volatiles | Fxd Crbn | Ash | Carbon | Hydrogen | Sulfur | Oxygen | Nitrogen | Hardgrove | Hemi Temp |
| 4.10 | 34.80 | 47.20 | BRISTOL BAY BOROUGH | 18.00 | 62.90 | D177647 | 554603 | 1603845 | B | 09/01/88 |
| | | | | | | | | | | 2804 |
| 2.30 | 32.90 | 37.60 | BRISTOL BAY BOROUGH | 29.50 | 53.60 | D177644 | 561557 | 1584203 | B | 09/01/88 |
| | | | | | | | | | | 2687 |
| 11.00 | 43.20 | 30.40 | KENAI PENINSULA BOROUGH | 26.40 | 51.00 | D169228 | 594500 | 1510000 | SB | 09/01/88 |
| | | | | | | | | | | 0 |
| 18.90 | 51.40 | 40.80 | KENAI PENINSULA BOROUGH | 7.80 | 62.00 | D178773 | 600024 | 1513722 | SB | 09/01/88 |
| | | | | | | | | | | 2354 |
| 23.40 | 54.10 | 39.60 | KENAI PENINSULA BOROUGH | 6.30 | 60.30 | D178628 | 600153 | 1514015 | SB | 09/01/88 |
| | | | | | | | | | | 1913 |
| 26.50 | 41.40 | 33.30 | KENAI PENINSULA BOROUGH | 25.30 | 50.00 | D178629 | 600339 | 1513914 | SB | 09/01/88 |
| | | | | | | | | | | 2138 |
| 21.60 | 50.10 | 39.80 | KENAI PENINSULA BOROUGH | 10.10 | 61.10 | D178775 | 600403 | 1513846 | SB | 09/01/88 |
| | | | | | | | | | | 2075 |
| 20.70 | 46.00 | 37.20 | KENAI PENINSULA BOROUGH | 16.80 | 56.30 | D178774 | 600417 | 1513828 | SB | 09/01/88 |
| | | | | | | | | | | 2228 |
| 20.20 | 43.00 | 27.20 | KENAI PENINSULA BOROUGH | 29.80 | 47.70 | D178777 | 601211 | 1512603 | SB | 09/01/88 |
| | | | | | | | | | | 2183 |
| 25.10 | 40.10 | 30.00 | KENAI PENINSULA BOROUGH | 29.90 | 47.20 | D178778 | 601229 | 1512534 | SB | 09/01/88 |
| | | | | | | | | | | 2120 |
| 21.10 | 46.50 | 44.60 | KENAI PENINSULA BOROUGH | 8.90 | 63.00 | D178635 | 611100 | 1513530 | SB | 09/01/88 |
| | | | | | | | | | | 2228 |
| 19.90 | 44.20 | 38.70 | KENAI PENINSULA BOROUGH | 17.10 | 57.50 | D178631 | 611710 | 1514447 | SB | 09/01/88 |
| | | | | | | | | | | 2417 |
| 30.80 | 56.20 | 37.90 | MATANUSKA-SUSITNA | 5.90 | 64.90 | D179395 | 622348 | 1512420 | SB | 09/01/88 |
| | | | | | | | | | | 2282 |
| 18.00 | 44.10 | 42.10 | NO BOROUGH | 13.80 | 60.90 | D177642 | 633917 | 1454638 | SB | 09/01/88 |
| | | | | | | | | | | 2300 |
| USIBELLI COAL MINE | 23.80 | 47.40 | NO BOROUGH | 16.00 | 57.20 | D186043 | 635410 | 1485616 | SB | 09/01/88 |
| | | | | | | | | | | 2408 |
| USIBELLI COAL MINE | 24.00 | 46.80 | NO BOROUGH | 13.30 | 62.60 | D179396 | 635456 | 1483902 | SB | 09/01/88 |
| | | | | | | | | | | 2354 |

Coal Field Information Printout for: AK - Alaska

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|--------------------|----------|-----------|----------|---------------------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| USIBELLI COAL MINE | 19.40 | 45.40 | 28.70 | NO BOROUGH | 25.90 | 52.50 | 4.30 | 0.40 | 635500 | 1483846 | SB | 9140 | 09/01/88 |
| | | | | | | | | | 15.90 | 1.00 | | 0.0 | 2282 |
| USIBELLI COAL MINE | 24.00 | 47.30 | 43.90 | NO BOROUGH | 8.80 | 64.50 | 4.90 | 0.30 | 635509 | 1484000 | SB | 11130 | 09/01/88 |
| | | | | | | | | | 20.40 | 1.10 | | 0.0 | 0 |
| USIBELLI COAL MINE | 29.70 | 47.90 | 40.40 | NO BOROUGH | 11.70 | 61.10 | 4.80 | 0.30 | 635605 | 1483922 | SB | 10430 | 09/01/88 |
| | | | | | | | | | 21.20 | 0.90 | | 0.0 | 2273 |
| USIBELLI COAL MINE | 23.40 | 49.30 | 41.40 | NO BOROUGH | 9.30 | 63.00 | 5.10 | 0.30 | 635622 | 1483942 | SB | 10760 | 09/01/88 |
| | | | | | | | | | 21.40 | 0.90 | | 0.0 | 2183 |
| | 32.70 | 48.40 | 37.90 | NO BOROUGH | 13.70 | 58.00 | 4.40 | 0.10 | 635812 | 1484500 | SB | 9600 | 09/01/88 |
| | | | | | | | | | 23.10 | 0.70 | | 0.0 | 2111 |
| USIBELLI COAL MINE | 28.50 | 50.30 | 39.40 | NO BOROUGH | 10.30 | 61.80 | 4.70 | 1.00 | 635836 | 1471622 | SB | 10600 | 09/01/88 |
| | | | | | | | | | 21.20 | 1.00 | | 0.0 | 2417 |
| | 12.80 | 14.70 | 55.50 | NORTH SLOPE BOROUGH | 29.80 | 57.00 | 2.70 | 1.50 | 680947 | 1655922 | B | 9550 | 09/01/88 |
| | | | | | | | | | 8.10 | 0.90 | | 0.0 | 2732 |
| | 16.10 | 11.20 | 82.10 | NORTH SLOPE BOROUGH | 6.70 | 84.10 | 3.40 | 0.60 | 682413 | 1655730 | B | 13870 | 09/01/88 |
| | | | | | | | | | 4.00 | 1.20 | | 0.0 | 2597 |
| | 6.70 | 40.80 | 55.70 | NORTH SLOPE BOROUGH | 3.50 | 77.80 | 5.00 | 0.20 | 692024 | 1603040 | B | 13560 | 09/01/88 |
| | | | | | | | | | 11.90 | 1.60 | | 0.5 | 2246 |
| | 6.10 | 37.40 | 55.10 | NORTH SLOPE BOROUGH | 7.50 | 75.40 | 5.00 | 0.20 | 692040 | 1602555 | B | 13270 | 09/01/88 |
| | | | | | | | | | 10.00 | 1.90 | | 1.5 | 2354 |
| | 12.80 | 36.40 | 55.20 | NORTH SLOPE BOROUGH | 8.40 | 69.30 | 4.30 | 0.20 | 692044 | 1602808 | B | 11660 | 09/01/88 |
| | | | | | | | | | 15.70 | 2.10 | | 0.0 | 2300 |
| | 18.90 | 34.60 | 59.90 | NORTH SLOPE BOROUGH | 5.50 | 72.50 | 4.10 | 0.50 | 692140 | 1611410 | B | 12070 | 09/01/88 |
| | | | | | | | | | 15.90 | 1.50 | | 0.0 | 2192 |
| | 5.20 | 34.50 | 49.80 | NORTH SLOPE BOROUGH | 15.70 | 69.30 | 4.60 | 0.30 | 692142 | 1612725 | B | 12040 | 09/01/88 |
| | | | | | | | | | 9.00 | 1.10 | | 0.5 | 2426 |
| | 6.50 | 37.40 | 56.40 | NORTH SLOPE BOROUGH | 6.20 | 76.80 | 5.10 | 0.30 | 692154 | 1602145 | B | 13500 | 09/01/88 |
| | | | | | | | | | 10.00 | 1.60 | | 2.0 | 2192 |
| | 20.90 | 36.70 | 58.50 | NORTH SLOPE BOROUGH | 4.80 | 71.10 | 4.10 | 0.30 | 692200 | 1611450 | B | 11770 | 09/01/88 |
| | | | | | | | | | 18.20 | 1.50 | | 0.0 | 2354 |
| | 8.70 | 35.60 | 60.60 | NORTH SLOPE BOROUGH | 3.80 | 78.10 | 4.70 | 0.30 | 692256 | 1612322 | B | 13450 | 09/01/88 |
| | | | | | | | | | 11.50 | 1.60 | | 0.5 | 2300 |

Coal Field Information Printout for: AK - Alaska

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------|----------|-----------|----------|---------------------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| 22.60 | 36.80 | 59.50 | 3.70 | NORTH SLOPE BOROUGH | 71.90 | 4.10 | 0.30 | 0.30 | 692308 | 1611600 | B | 11890 | 09/01/88 |
| | | | | | | | | | 18.10 | 1.90 | | 0.0 | 2183 |
| 25.50 | 42.30 | 51.50 | 6.20 | NORTH SLOPE BOROUGH | 68.60 | 4.00 | 0.30 | 0.30 | 692310 | 1612320 | B | 11180 | 09/01/88 |
| | | | | | | | | | 19.00 | 1.90 | | 0.0 | 2282 |
| 9.70 | 37.20 | 59.60 | 3.20 | NO BOROUGH | 74.30 | 4.50 | 0.20 | 0.20 | 692535 | 1611340 | B | 12620 | 09/01/88 |
| | | | | | | | | | 16.10 | 1.70 | | 0.0 | 0 |
| 14.10 | 36.00 | 61.20 | 2.80 | NORTH SLOPE BOROUGH | 73.50 | 4.30 | 0.30 | 0.30 | 692617 | 1612046 | B | 12270 | 09/01/88 |
| | | | | | | | | | 17.50 | 1.60 | | 0.0 | 2129 |
| 13.90 | 35.10 | 61.30 | 3.60 | NORTH SLOPE BOROUGH | 73.90 | 4.40 | 0.30 | 0.30 | 692648 | 1604512 | B | 12370 | 09/01/88 |
| | | | | | | | | | 16.30 | 1.50 | | 0.0 | 2246 |
| 5.00 | 26.30 | 34.50 | 39.20 | NORTH SLOPE BOROUGH | 48.50 | 3.60 | 0.40 | 0.40 | 692708 | 1612220 | B | 8580 | 09/01/88 |
| | | | | | | | | | 7.20 | 1.10 | | 0.0 | 2912 |
| 11.90 | 34.10 | 63.30 | 2.60 | NORTH SLOPE BOROUGH | 76.90 | 4.60 | 0.30 | 0.30 | 692758 | 1612228 | B | 13080 | 09/01/88 |
| | | | | | | | | | 13.80 | 1.80 | | 0.0 | 2192 |
| 8.40 | 37.40 | 57.80 | 4.80 | NORTH SLOPE BOROUGH | 77.50 | 4.90 | 0.30 | 0.30 | 692832 | 1612220 | B | 13480 | 09/01/88 |
| | | | | | | | | | 11.00 | 1.50 | | 0.5 | 2408 |
| 5.70 | 42.50 | 40.90 | 16.60 | NORTH SLOPE BOROUGH | 53.80 | 4.40 | 0.20 | 0.20 | 693143 | 1612020 | B | 8900 | 09/01/88 |
| | | | | | | | | | 23.50 | 1.50 | | 0.0 | 2561 |

Coal Field Information Printout for

AL - Alabama

Coal Field Information Printout for: AL - Alabama

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Code Number | Sulfur | Latitude | Oxygen | Longitude | Rank | Free Swell | Htg Val | Last Chg |
|-----------------|----------|-----------|----------|------------|-------|--------|----------|-------------|--------|----------|--------|-----------|------|------------|---------|----------|
| | | | | | | | | | | | | | | | | |
| | 43.60 | 37.80 | 24.10 | CHOCTAW | 38.10 | 41.90 | 3.60 | W188893 | 4.10 | 315919 | 11.40 | 880716 | L | 6860 | 0.0 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2048 |
| | 50.10 | 37.40 | 27.90 | CHOCTAW | 34.70 | 45.20 | 3.30 | W188891 | 3.20 | 320301 | 12.60 | 881243 | L | 7600 | 0.0 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2138 |
| | 50.70 | 37.50 | 37.50 | WILCOX | 25.00 | 52.50 | 3.60 | W188881 | 2.80 | 320353 | 15.10 | 873629 | L | 8860 | 0.0 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2084 |
| | 49.60 | 41.80 | 28.40 | CHOCTAW | 29.80 | 47.80 | 3.50 | W188890 | 6.00 | 320419 | 12.10 | 881336 | L | 8270 | 0.0 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2066 |
| | 52.50 | 41.30 | 47.50 | MARENGO | 11.20 | 63.10 | 4.10 | W188882 | 4.60 | 320524 | 15.90 | 873734 | L | 10460 | 0.0 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2120 |
| | 52.40 | 40.50 | 41.20 | MARENGO | 18.30 | 57.10 | 3.90 | W188883 | 4.00 | 320716 | 15.60 | 874125 | L | 9560 | 0.0 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2084 |
| | 48.00 | 35.70 | 30.60 | CHOCTAW | 33.70 | 41.10 | 3.20 | W188880 | 5.60 | 320742 | 15.60 | 881856 | L | 6880 | 0.0 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2102 |
| | 36.50 | 42.30 | 31.70 | CHOCTAW | 26.00 | 47.60 | 3.50 | W188879 | 5.20 | 320855 | 16.60 | 881608 | L | 7910 | 0.0 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2084 |
| | 49.50 | 40.20 | 37.20 | MARENGO | 22.60 | 52.30 | 3.80 | W188884 | 5.10 | 320926 | 15.20 | 874513 | L | 8910 | 0.0 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2030 |
| | 49.60 | 44.80 | 43.10 | MARENGO | 12.10 | 59.90 | 4.30 | W188886 | 4.20 | 320959 | 18.50 | 875218 | L | 10320 | 0.0 | 09/01/88 |
| | | | | | | | | | | | | | | | | 1976 |
| | 46.10 | 42.10 | 34.90 | SUMTER | 23.00 | 54.10 | 4.00 | W188887 | 3.90 | 322156 | 14.10 | 881704 | L | 9200 | 0.0 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2030 |
| ALAND | 1.30 | 36.90 | 59.70 | TUSCALOOSA | 3.40 | 82.00 | 5.40 | W193940 | 1.50 | 331608 | 6.10 | 872343 | B | 14720 | 7.0 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2201 |
| IN-SITU GAS DDH | 0.60 | 26.40 | 68.30 | JEFFERSON | 5.30 | 82.20 | 5.10 | W193937 | 2.90 | 332441 | 3.00 | 870636 | B | 14760 | 9.0 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2111 |
| 0.90 | 25.20 | 69.40 | 69.40 | JEFFERSON | 5.40 | 82.90 | 5.00 | W191076 | 1.10 | 333259 | 4.20 | 870538 | B | 14680 | 9.0 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2912 |
| 1.70 | 30.60 | 45.10 | 45.10 | TUSCALOOSA | 24.30 | 61.40 | 4.30 | W191070 | 1.90 | 333630 | 6.70 | 873630 | B | 11060 | 4.0 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2606 |
| 1.10 | 30.00 | 62.70 | 62.70 | JEFFERSON | 7.30 | 79.60 | 5.10 | W191078 | 1.40 | 333802 | 5.00 | 865020 | B | 14260 | 8.5 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2687 |

Coal Field Information Printout for: AL - Alabama

| Location Moisture | Volatiles | Fxd Crbn | County Ash | Carbon | Hydrogen | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank Hardgrove | Htg Val Free Swell | Last Chg Hemi Temp |
|----------------------|-----------|----------|---------------|--------|----------|--------|--------------------|-----------------------|-------------------|-----------------------|-----------------------|
| 1.20 | 34.60 | 56.60 | WALKER | 8.80 | 77.70 | 2.10 | 333815 | 871054 | B | 13910 | 09/01/88 |
| | | | | | | | 4.80 | 1.40 | | 9.0 | 2399 |
| 1.40 | 31.00 | 50.80 | WALKER | 18.20 | 68.10 | 1.60 | 333823 | 871113 | B | 12210 | 09/01/88 |
| | | | | | | | 6.00 | 1.30 | | 8.5 | 2804 |
| 0.90 | 30.30 | 57.00 | JEFFERSON | 12.70 | 74.20 | 3.10 | 333900 | 870810 | B | 13380 | 09/01/88 |
| | | | | | | | 3.80 | 1.30 | | 9.0 | 2309 |
| 5.30 | 30.50 | 58.30 | JEFFERSON | 11.20 | 70.80 | 1.00 | 333923 | 865830 | B | 12220 | 09/01/88 |
| | | | | | | | 11.70 | 1.10 | | 1.0 | 2183 |
| 1.40 | 28.70 | 57.70 | WALKER | 13.60 | 73.10 | 1.80 | 333925 | 870830 | B | 13030 | 09/01/88 |
| | | | | | | | 5.30 | 1.40 | | 8.5 | 2804 |
| 1.70 | 33.70 | 52.20 | WALKER | 14.10 | 72.20 | 1.80 | 333939 | 870830 | B | 13020 | 09/01/88 |
| | | | | | | | 5.70 | 1.10 | | 9.0 | 2678 |
| 2.50 | 30.10 | 53.90 | WALKER | 16.00 | 70.00 | 0.90 | 333940 | 871250 | B | 12470 | 09/01/88 |
| | | | | | | | 7.10 | 1.20 | | 7.5 | 2912 |
| 1.50 | 37.60 | 56.50 | WALKER | 5.90 | 78.30 | 2.00 | 334133 | 871115 | B | 14190 | 09/01/88 |
| | | | | | | | 7.00 | 1.50 | | 8.5 | 2273 |
| 1.90 | 33.60 | 52.70 | WALKER | 13.70 | 71.40 | 1.50 | 334138 | 871720 | B | 12730 | 09/01/88 |
| | | | | | | | 6.90 | 1.60 | | 4.5 | 2804 |
| 1.80 | 32.30 | 48.40 | WALKER | 19.30 | 65.90 | 1.30 | 334215 | 871740 | B | 11810 | 09/01/88 |
| | | | | | | | 7.60 | 1.20 | | 4.5 | 2912 |
| 1.70 | 34.90 | 57.40 | WALKER | 7.70 | 77.40 | 1.60 | 334226 | 871105 | B | 13870 | 09/01/88 |
| | | | | | | | 6.90 | 0.90 | | 7.5 | 2534 |
| 1.80 | 27.30 | 51.90 | WALKER | 20.80 | 65.00 | 1.80 | 334226 | 871125 | B | 11560 | 09/01/88 |
| | | | | | | | 7.10 | 0.80 | | 3.0 | 2912 |
| 2.40 | 31.80 | 52.10 | WALKER | 16.10 | 68.90 | 0.90 | 334558 | 871435 | B | 12280 | 09/01/88 |
| | | | | | | | 7.80 | 1.60 | | 1.5 | 2912 |
| 2.30 | 26.90 | 58.10 | WALKER | 15.00 | 69.50 | 0.60 | 334634 | 871007 | B | 12420 | 09/01/88 |
| | | | | | | | 9.30 | 0.90 | | 2.0 | 2912 |
| 1.80 | 33.00 | 58.10 | WALKER | 8.90 | 75.20 | 2.40 | 334709 | 870212 | B | 13440 | 09/01/88 |
| | | | | | | | 7.00 | 1.30 | | 6.0 | 2183 |
| 1.90 | 37.60 | 52.50 | WALKER | 9.90 | 74.20 | 1.50 | 334714 | 871022 | B | 13390 | 09/01/88 |
| | | | | | | | 7.50 | 1.70 | | 5.0 | 2696 |

Coal Field Information Printout for: AL - Alabama

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-------------|----------|-----------|----------|----------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| 2.80 | 31.20 | 55.80 | 13.00 | WALKER | 72.30 | 4.80 | 0.40 | 334720 | 871022 | B | 12750 | 1.5 | 09/01/88 |
| | | | | | | | | | 7.90 | 1.60 | | | 2912 |
| 1.70 | 33.30 | 56.20 | 10.50 | WALKER | 72.70 | 5.20 | 3.80 | 334732 | 870146 | B | 13150 | 4.0 | 09/01/88 |
| | | | | | | | | | 6.60 | 1.20 | | | 2084 |
| 1.70 | 33.40 | 57.10 | 9.50 | WALKER | 73.50 | 5.30 | 4.10 | 334733 | 870144 | B | 13340 | 4.5 | 09/01/88 |
| | | | | | | | | | 6.20 | 1.40 | | | 2048 |
| 2.40 | 29.30 | 57.40 | 13.30 | WALKER | 71.50 | 4.70 | 0.50 | 334757 | 871110 | B | 12600 | 1.5 | 09/01/88 |
| | | | | | | | | | 9.00 | 1.00 | | | 2912 |
| 2.40 | 40.40 | 51.90 | 7.70 | FAYETTE | 75.10 | 5.50 | 2.00 | 335025 | 873540 | B | 13620 | 5.0 | 09/01/88 |
| | | | | | | | | | 8.30 | 1.40 | | | 2156 |
| PATTON MINE | | | | | | | | | | | | | |
| 2.20 | 36.90 | 58.80 | 4.30 | CULLMAN | 79.90 | 5.10 | 0.70 | 335835 | 870455 | B | 14310 | 5.5 | 09/01/88 |
| | | | | | | | | | 8.20 | 1.80 | | | 2804 |
| 2.70 | 21.60 | 74.60 | 3.80 | CHEROKEE | 85.90 | 4.30 | 1.30 | 342804 | 853252 | B | 14940 | 8.0 | 09/01/88 |
| | | | | | | | | | 3.10 | 1.60 | | | 2102 |
| 1.50 | 22.10 | 72.50 | 5.40 | CHEROKEE | 83.20 | 4.40 | 0.80 | 342848 | 853208 | B | 14750 | 8.5 | 09/01/88 |
| | | | | | | | | | 4.80 | 1.40 | | | 2561 |
| 1.70 | 19.60 | 71.00 | 9.40 | CHEROKEE | 79.90 | 4.40 | 0.90 | 342940 | 853237 | B | 13960 | 8.0 | 09/01/88 |
| | | | | | | | | | 3.90 | 1.50 | | | 2759 |
| 1.20 | 19.70 | 78.30 | 2.00 | DE KALB | 87.60 | 4.50 | 0.60 | 343204 | 853241 | B | 15340 | 4.5 | 09/01/88 |
| | | | | | | | | | 3.80 | 1.50 | | | 2543 |
| 7.90 | 23.70 | 69.00 | 7.30 | DE KALB | 74.40 | 3.50 | 0.50 | 343234 | 853249 | B | 12160 | 0.0 | 09/01/88 |
| | | | | | | | | | 13.00 | 1.30 | | | 2804 |
| 1.30 | 20.50 | 75.90 | 3.60 | DE KALB | 86.70 | 4.30 | 0.90 | 343238 | 853203 | B | 15050 | 8.5 | 09/01/88 |
| | | | | | | | | | 2.90 | 1.60 | | | 2408 |
| 2.50 | 21.90 | 62.30 | 15.80 | DE KALB | 73.20 | 4.00 | 2.00 | 343845 | 853328 | B | 12870 | 7.0 | 09/01/88 |
| | | | | | | | | | 3.80 | 1.20 | | | 2678 |
| 1.80 | 23.80 | 67.50 | 8.70 | JACKSON | 80.70 | 4.60 | 0.70 | 345326 | 853621 | B | 14080 | 7.5 | 09/01/88 |
| | | | | | | | | | 3.90 | 1.40 | | | 2750 |

Coal Field Information Printout for

AR - Arkansas

Coal Field Information Printout for: AR - Arkansas

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------|----------|-----------|----------|-------------|-------|--------|----------|--------|----------|-----------|-----------|------------|------------------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| 40.80 | 48.30 | 39.40 | 12.30 | CLARK | 62.90 | 4.50 | 0.50 | 335601 | 925845 | L | 10570 | 0.0 | 09/01/88 2129 |
| 42.00 | 49.60 | 43.80 | 6.60 | CLARK | 66.10 | 5.10 | 1.70 | 340030 | 925615 | L | 11260 | 0.0 | 09/01/88 2138 |
| 39.10 | 42.20 | 26.40 | 31.40 | HOT SPRINGS | 48.20 | 4.40 | 1.10 | 342012 | 924652 | L | 8640 | 0.0 | 09/01/88 2912 |
| 57.00 | 53.30 | 27.90 | 18.80 | SALINE | 54.00 | 4.30 | 0.50 | 342843 | 923220 | L | 9120 | 0.0 | 09/01/88 2912 |
| 55.00 | 47.50 | 34.70 | 17.80 | SALINE | 55.30 | 4.20 | 1.30 | 343402 | 922330 | L | 8960 | 0.0 | 09/01/88 2912 |
| 35.50 | 40.00 | 21.90 | 38.10 | PULASKI | 41.30 | 3.80 | 0.80 | 343940 | 921616 | L | 7130 | 0.0 | 09/01/88 2912 |
| 4.40 | 22.60 | 70.00 | 7.40 | SCOTT | 82.20 | 4.50 | 0.80 | 345458 | 942356 | B | 14320 | 8.0 | 09/01/88 2183 |
| 9.70 | 27.10 | 68.50 | 4.40 | SEBASTIAN | 77.90 | 3.50 | 0.70 | 350002 | 942100 | B | 12770 | 0.0 | 09/01/88 2246 |
| 2.90 | 21.70 | 72.20 | 6.10 | SCOTT | 84.50 | 4.30 | 0.80 | 350103 | 914201 | B | 14580 | 9.0 | 09/01/88 2192 |
| 2.30 | 21.10 | 70.50 | 8.40 | SCOTT | 82.00 | 4.20 | 1.20 | 350103 | 941201 | B | 14310 | 9.0 | 09/01/88 2111 |
| 3.10 | 19.30 | 74.60 | 6.10 | SEBASTIAN | 84.80 | 4.40 | 0.60 | 350514 | 941635 | B | 14670 | 9.0 | 09/01/88 2084 |
| 7.40 | 19.40 | 74.60 | 6.00 | SEBASTIAN | 80.80 | 3.90 | 0.60 | 351008 | 941937 | B | 13640 | 0.0 | 09/01/88 2363 |
| 4.60 | 22.60 | 75.00 | 2.40 | SEBASTIAN | 86.60 | 4.30 | 0.80 | 351118 | 941708 | B | 14830 | 0.5 | 09/01/88 2246 |
| 3.10 | 17.30 | 81.00 | 1.70 | FRANKLIN | 87.80 | 4.50 | 0.90 | 351700 | 935930 | B | 15210 | 2.0 | 09/01/88 2192 |
| 4.30 | 18.30 | 78.80 | 2.90 | LOGAN | 87.20 | 4.30 | 0.60 | 351845 | 934305 | B | 14950 | 0.5 | 09/01/88 2138 |
| 3.50 | 16.80 | 78.70 | 4.50 | LOGAN | 85.30 | 4.30 | 1.70 | 351918 | 934353 | B | 14860 | 9.0 | 09/01/88 2246 |

Coal Field Information Printout for: AR - Arkansas

| Location | | County | | | Code Number | | Latitude | Longitude | Rank | Htg Val | Last Chg |
|---------------------|-----------|----------|-----------|--------|-------------|---------|----------|-----------|-----------|------------|-----------|
| Moisture | Volatiles | Fxd Crbn | Ash | Carbon | Hydrogen | Sulfur | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| 1.30 | 20.70 | 72.10 | FRANKLIN | 7.20 | 82.80 | D175929 | 352010 | 935556 | B | 14480 | 09/01/88 |
| | | | | | | | 0.60 | 1.60 | | 9.0 | 2246 |
| 3.60 | 15.00 | 74.00 | LOGAN | 11.00 | 80.30 | D176060 | 352020 | 933122 | B | 13640 | 09/01/88 |
| | | | | | | | 2.20 | 1.70 | | 0.5 | 2129 |
| GARLAND STRIP | 18.90 | 74.20 | FRANKLIN | 6.90 | 82.50 | D179993 | 352035 | 935558 | B | 14460 | 09/01/88 |
| | | | | | | | 1.20 | 1.60 | | 9.0 | 2534 |
| 3.50 | 16.00 | 76.70 | FRANKLIN | 7.30 | 82.70 | D175921 | 352522 | 935701 | B | 14350 | 09/01/88 |
| | | | | | | | 2.90 | 1.70 | | 7.0 | 2417 |
| 3.30 | 14.40 | 82.50 | JOHNSON | 3.10 | 88.90 | D175920 | 352705 | 933510 | B | 15070 | 09/01/88 |
| | | | | | | | 1.60 | 1.80 | | 0.5 | 2192 |
| TITAN STRIP | 11.20 | 80.90 | JOHNSON | 7.90 | 83.20 | D179991 | 352742 | 932240 | B | 14220 | 09/01/88 |
| | | | | | | | 2.50 | 1.60 | | 0.5 | 2471 |
| ENERGY DEV CO STRIP | 12.60 | 78.00 | JOHNSON | 9.40 | 81.00 | D179992 | 353010 | 932143 | B | 14000 | 09/01/88 |
| | | | | | | | 0.10 | 1.50 | | 0.5 | 2480 |
| 2.70 | 19.30 | 77.70 | FRANKLIN | 3.00 | 88.10 | D175919 | 353038 | 934350 | B | 15180 | 09/01/88 |
| | | | | | | | 1.70 | 2.00 | | 9.0 | 2363 |
| B AND D CO STRIP | 16.30 | 67.60 | FRANKLIN | 16.10 | 74.10 | D179989 | 353115 | 934545 | B | 12910 | 09/01/88 |
| | | | | | | | 3.10 | 1.50 | | 4.0 | 2912 |
| PEABODY STRIP | 16.30 | 79.30 | JOHNSON | 4.40 | 86.80 | D179990 | 353143 | 944043 | B | 14940 | 09/01/88 |
| | | | | | | | 2.30 | 1.70 | | 7.0 | 2120 |
| 9.60 | 15.70 | 77.20 | JOHNSON | 7.10 | 83.90 | D175918 | 353310 | 932915 | B | 14370 | 09/01/88 |
| | | | | | | | 2.30 | 1.80 | | 4.0 | 2246 |
| JACK LEE MINE | 18.30 | 78.40 | JOHNSON | 3.30 | 86.90 | D176059 | 353330 | 933807 | B | 14990 | 09/01/88 |
| | | | | | | | 3.00 | 1.90 | | 5.0 | 2138 |
| HOLE NO 31 | 40.10 | 20.40 | POINSETT | 39.50 | 41.80 | D186849 | 353450 | 904210 | L | 7400 | 09/01/88 |
| | | | | | | | 13.60 | 0.60 | | 0.0 | 2408 |
| HOLE NO 24 | 38.70 | 27.70 | POINSETT | 33.60 | 44.20 | D177850 | 353525 | 904200 | L | 7570 | 09/01/88 |
| | | | | | | | 16.60 | 0.90 | | 0.0 | 2408 |
| HOLE NO 27 | 46.40 | 32.30 | POINSETT | 21.30 | 52.80 | D186853 | 353540 | 903945 | L | 9250 | 09/01/88 |
| | | | | | | | 15.30 | 0.70 | | 0.0 | 2039 |
| HOLE NO 68 | 33.60 | 32.20 | CRAIGHEAD | 34.20 | 45.90 | D186855 | 354930 | 904630 | L | 7660 | 09/01/88 |
| | | | | | | | 14.10 | 0.70 | | 0.0 | 2300 |

Coal Field Information Printout for

AZ - Arizona

Coal Field Information Printout for: AZ - Arizona

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Code Number | Sulfur | Oxygen | Latitude | Longitude | Rank | Free Swell | Htg Val | Last Chg |
|-----------------------|----------|-----------|----------|--------|-------|--------|----------|-------------|--------|--------|----------|-----------|------|------------|---------|----------|
| BLACK MESA STRIP MINE | 10.40 | 46.00 | 51.00 | NAVAJO | 3.00 | 75.10 | 5.30 | D164637 | 0.40 | 362230 | 1102230 | 1.20 | SB | 13170 | 0.0 | 09/01/88 |
| | | | | | | | | | | 15.00 | | | | 0.0 | 0.0 | 0 |
| | 10.80 | 42.60 | 48.50 | NAVAJO | 8.90 | 70.30 | 5.20 | D179814 | 0.40 | 362831 | 1102438 | 1.10 | SB | 12380 | 0.0 | 09/01/88 |
| | | | | | | | | | | 14.10 | | | | 0.0 | 0.0 | 2345 |
| | 10.20 | 45.90 | 48.90 | NAVAJO | 5.20 | 73.20 | 5.30 | D176231 | 0.30 | 362831 | 1102445 | 1.20 | SB | 12770 | 0.5 | 09/01/88 |
| | | | | | | | | | | 14.80 | | | | 0.0 | 0.0 | 2174 |
| | 10.80 | 42.60 | 48.50 | NAVAJO | 8.90 | 70.30 | 5.20 | D179816 | 0.40 | 362840 | 1102430 | 1.10 | SB | 12380 | 0.0 | 09/01/88 |
| | | | | | | | | | | 14.10 | | | | 0.0 | 0.0 | 2345 |
| | 10.80 | 42.60 | 48.50 | NAVAJO | 8.90 | 70.30 | 5.20 | D179817 | 0.40 | 362842 | 1102430 | 1.10 | SB | 12380 | 0.0 | 09/01/88 |
| | | | | | | | | | | 14.10 | | | | 0.0 | 0.0 | 2345 |
| | 10.80 | 42.60 | 48.50 | NAVAJO | 8.90 | 70.30 | 5.20 | D179818 | 0.40 | 362843 | 1102420 | 1.10 | SB | 12380 | 0.0 | 09/01/88 |
| | | | | | | | | | | 14.10 | | | | 0.0 | 0.0 | 2345 |
| | 8.60 | 43.80 | 46.20 | NAVAJO | 10.00 | 69.10 | 4.90 | D176235 | 0.50 | 362931 | 1102352 | 1.20 | SB | 11940 | 0.0 | 09/01/88 |
| | | | | | | | | | | 14.30 | | | | 0.0 | 0.0 | 2174 |
| | 9.30 | 44.20 | 50.00 | NAVAJO | 5.80 | 73.00 | 5.10 | D176227 | 0.40 | 363204 | 1102506 | 1.30 | SB | 12750 | 0.0 | 09/01/88 |
| | | | | | | | | | | 14.40 | | | | 0.0 | 0.0 | 2156 |
| | 9.30 | 44.20 | 50.00 | NAVAJO | 5.80 | 73.00 | 5.10 | D176229 | 0.40 | 363209 | 1102508 | 1.30 | SB | 12750 | 0.0 | 09/01/88 |
| | | | | | | | | | | 14.40 | | | | 0.0 | 0.0 | 2156 |
| | 10.60 | 42.80 | 47.00 | NAVAJO | 10.20 | 68.80 | 4.90 | D176225 | 0.60 | 363228 | 1102531 | 1.30 | SB | 12050 | 0.0 | 09/01/88 |
| | | | | | | | | | | 14.20 | | | | 0.0 | 0.0 | 2300 |
| | 10.80 | 43.50 | 49.50 | NAVAJO | 7.00 | 71.60 | 5.20 | D179812 | 0.80 | 363241 | 1102437 | 1.20 | SB | 12590 | 0.0 | 09/01/88 |
| | | | | | | | | | | 14.20 | | | | 0.0 | 0.0 | 2291 |
| | 9.30 | 45.00 | 45.60 | NAVAJO | 9.40 | 70.00 | 5.10 | D176226 | 0.60 | 363242 | 1102446 | 1.20 | SB | 12240 | 0.5 | 09/01/88 |
| | | | | | | | | | | 13.70 | | | | 0.0 | 0.0 | 2201 |
| | 11.70 | 38.80 | 48.60 | NAVAJO | 12.60 | 66.90 | 4.80 | D179809 | 0.60 | 363250 | 1102456 | 1.20 | SB | 11730 | 0.0 | 09/01/88 |
| | | | | | | | | | | 13.90 | | | | 0.0 | 0.0 | 2399 |
| | 12.10 | 42.20 | 49.70 | NAVAJO | 8.10 | 70.30 | 5.00 | D179825 | 0.60 | 363317 | 1102408 | 1.30 | SB | 12230 | 0.0 | 09/01/88 |
| | | | | | | | | | | 14.70 | | | | 0.0 | 0.0 | 2192 |

Coal Field Information Printout for

CO - Colorado

Coal Field Information Printout for: CO - Colorado

| Location | | County | | Code Number | | Latitude | Longitude | Rank | Htg Val | Last Chg | |
|-----------------|-----------|----------|-------|-------------|----------|----------|-----------|----------|-----------|------------|-----------|
| Moisture | Volatiles | Fxd Crbn | Ash | Carbon | Hydrogen | Sulfur | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| LAS ANIMAS | | | | | | | | | | | |
| 1.20 | 27.30 | 47.10 | 25.60 | 63.30 | 4.30 | 0.90 | 370815 | 1044820 | B | 11250 | 09/01/88 |
| | | | | | | | 4.50 | 1.40 | | 7.0 | 2570 |
| LAS ANIMAS | | | | | | | | | | | |
| 1.40 | 24.90 | 47.10 | 28.00 | 60.80 | 4.20 | 0.40 | 371025 | 1044820 | B | 10800 | 09/01/88 |
| | | | | | | | 5.20 | 1.40 | | 6.0 | 2804 |
| LAS ANIMAS | | | | | | | | | | | |
| 0.90 | 17.40 | 55.20 | 27.40 | 62.90 | 2.70 | 0.80 | 371100 | 1044700 | B | 10260 | 09/01/88 |
| | | | | | | | 5.00 | 1.20 | | 0.0 | 2354 |
| LA PLATA | | | | | | | | | | | |
| 3.10 | 33.00 | 49.20 | 17.80 | 67.30 | 4.70 | 0.70 | 371505 | 1080720 | B | 12030 | 09/01/88 |
| | | | | | | | 8.10 | 1.40 | | 1.0 | 2804 |
| LA PLATA | | | | | | | | | | | |
| 3.40 | 35.90 | 54.10 | 10.00 | 73.50 | 5.10 | 0.70 | 371552 | 1080820 | B | 13150 | 09/01/88 |
| | | | | | | | 9.10 | 1.60 | | 1.5 | 2804 |
| HUERFANO | | | | | | | | | | | |
| 7.50 | 40.00 | 48.00 | 12.00 | 69.50 | 5.00 | 0.80 | 374237 | 1045427 | B | 12300 | 09/01/88 |
| | | | | | | | 11.40 | 1.30 | | 0.0 | 2714 |
| FREMONT | | | | | | | | | | | |
| CORLEY MINE | | | | | | | | | | | |
| 7.50 | 40.50 | 48.30 | 11.20 | 69.20 | 4.70 | 1.20 | 381850 | 1050845 | B | 12060 | 09/01/88 |
| | | | | | | | 12.50 | 1.20 | | 0.0 | 2516 |
| FREMONT | | | | | | | | | | | |
| TWIN PINES MINE | | | | | | | | | | | |
| 8.90 | 40.50 | 49.70 | 9.80 | 70.90 | 4.50 | 0.50 | 382020 | 1051056 | B | 12180 | 09/01/88 |
| | | | | | | | 13.30 | 1.00 | | 0.0 | 2282 |
| GUNNISON | | | | | | | | | | | |
| HOLE NO SOM-68 | | | | | | | | | | | |
| 6.10 | 38.00 | 49.20 | 12.80 | 66.20 | 5.10 | 1.40 | 385105 | 1072542 | B | 11880 | 09/01/88 |
| | | | | | | | 13.30 | 1.20 | | 0.5 | 2282 |
| GUNNISON | | | | | | | | | | | |
| HOLE NO MG-7 | | | | | | | | | | | |
| 8.60 | 38.10 | 58.50 | 3.40 | 74.70 | 5.30 | 0.70 | 385123 | 1072730 | B | 12980 | 09/01/88 |
| | | | | | | | 14.30 | 1.60 | | 0.0 | 2075 |
| GUNNISON | | | | | | | | | | | |
| HOLE NO SOM-66 | | | | | | | | | | | |
| 6.30 | 35.80 | 49.50 | 14.70 | 65.60 | 4.80 | 1.00 | 385203 | 1072602 | B | 11360 | 09/01/88 |
| | | | | | | | 12.80 | 1.10 | | 0.5 | 2417 |
| GUNNISON | | | | | | | | | | | |
| HOLE NO MG-11 | | | | | | | | | | | |
| 4.70 | 35.80 | 48.60 | 15.60 | 66.20 | 5.10 | 0.60 | 385236 | 1072816 | B | 11640 | 09/01/88 |
| | | | | | | | 11.50 | 1.00 | | 0.5 | 2732 |
| GUNNISON | | | | | | | | | | | |
| HOLE NO SOM-53 | | | | | | | | | | | |
| 4.30 | 32.30 | 48.00 | 19.70 | 62.30 | 4.40 | 0.50 | 385311 | 1072532 | B | 10880 | 09/01/88 |
| | | | | | | | 11.80 | 1.30 | | 0.0 | 2804 |
| GUNNISON | | | | | | | | | | | |
| HOLE NO SOM-39 | | | | | | | | | | | |
| 5.80 | 38.10 | 57.50 | 4.40 | 74.80 | 5.50 | 0.60 | 385354 | 1072716 | B | 13140 | 09/01/88 |
| | | | | | | | 13.10 | 1.60 | | 0.0 | 2453 |
| GUNNISON | | | | | | | | | | | |
| 3.20 | 38.90 | 53.60 | 7.50 | 75.40 | 5.10 | 0.60 | 385540 | 1072804 | B | 13570 | 09/01/88 |
| | | | | | | | 9.70 | 1.70 | | 2.0 | 2471 |
| GUNNISON | | | | | | | | | | | |
| 4.50 | 37.70 | 56.30 | 6.00 | 76.00 | 5.40 | 0.50 | 385541 | 1072656 | B | 13640 | 09/01/88 |
| | | | | | | | 10.30 | 1.80 | | 2.0 | 2552 |

Coal Field Information Printout for: CO - Colorado

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Code Number | Sulfur | Oxygen | Latitude | Longitude | Rank | Free Swell | Htg Val | Last Chg |
|----------|----------|-----------|----------|------------|-------|--------|----------|-------------|--------|--------|----------|-----------|------|------------|---------|----------|
| | | | | | | | | | | | | | | | | |
| 5.30 | 37.30 | 55.40 | 55.40 | GUNNISON | 7.30 | 75.20 | 5.20 | D184652 | 0.60 | 10.10 | 385557 | 1072442 | B | 13400 | 2.0 | 09/01/88 |
| 5.10 | 31.40 | 44.00 | 44.00 | MESA | 24.60 | 58.80 | 4.10 | D180095 | 1.30 | 9.90 | 390821 | 1081834 | B | 10360 | 1.0 | 09/01/88 |
| 5.50 | 37.50 | 50.00 | 50.00 | MESA | 12.50 | 70.00 | 4.60 | D184655 | 0.60 | 10.70 | 390835 | 1081847 | B | 12330 | 1.0 | 09/01/88 |
| 0.80 | 22.90 | 69.50 | 69.50 | PITKIN | 7.60 | 82.70 | 4.70 | D184637 | 0.50 | 2.60 | 391118 | 1072039 | B | 14620 | 9.0 | 09/01/88 |
| 33.20 | 43.30 | 39.20 | 39.20 | ELBERT | 17.50 | 55.70 | 3.90 | D169431 | 0.40 | 21.50 | 391547 | 1041656 | L | 9070 | 0.0 | 09/01/88 |
| 4.00 | 40.90 | 52.90 | 52.90 | GARFIELD | 6.20 | 73.40 | 5.20 | D184636 | 1.60 | 11.70 | 392408 | 1071916 | B | 13130 | 0.0 | 09/01/88 |
| 35.00 | 39.70 | 39.20 | 39.20 | ADAMS | 21.10 | 56.00 | 4.30 | D173470 | 0.50 | 17.20 | 394718 | 1044145 | L | 9460 | 0.0 | 09/01/88 |
| 32.90 | 36.20 | 38.20 | 38.20 | ADAMS | 25.60 | 52.90 | 4.10 | D177499 | 0.60 | 15.90 | 394727 | 1044050 | L | 8960 | 0.0 | 09/01/88 |
| 6.90 | 38.10 | 53.30 | 53.30 | RIO BLANCO | 8.60 | 71.90 | 4.90 | D186088 | 0.50 | 12.60 | 400103 | 1084445 | B | 12590 | 0.0 | 09/01/88 |
| 22.30 | 41.10 | 53.40 | 53.40 | WELD | 5.50 | 72.20 | 4.90 | D173488 | 0.50 | 15.40 | 400245 | 1045900 | SB | 12480 | 0.0 | 09/01/88 |
| 10.20 | 38.40 | 44.20 | 44.20 | RIO BLANCO | 17.40 | 64.40 | 4.40 | D186078 | 0.70 | 11.70 | 400336 | 1084150 | B | 11310 | 0.0 | 09/01/88 |
| 9.50 | 34.10 | 39.50 | 39.50 | RIO BLANCO | 26.40 | 56.40 | 3.80 | D186090 | 0.60 | 11.70 | 400550 | 1083920 | B | 9830 | 0.0 | 09/01/88 |
| 23.80 | 32.40 | 41.00 | 41.00 | RIO BLANCO | 26.60 | 55.20 | 3.90 | D186096 | 0.70 | 12.40 | 400932 | 1074530 | B | 9600 | 0.0 | 09/01/88 |
| 12.10 | 38.20 | 51.90 | 51.90 | RIO BLANCO | 9.90 | 70.70 | 4.70 | D186086 | 0.50 | 12.70 | 400932 | 1084136 | B | 12320 | 0.0 | 09/01/88 |
| 17.10 | 37.20 | 45.10 | 45.10 | MOFFAT | 17.70 | 62.30 | 4.20 | D186083 | 0.50 | 14.00 | 401328 | 1084955 | B | 10710 | 0.0 | 09/01/88 |
| 15.20 | 35.60 | 50.10 | 50.10 | MOFFAT | 14.30 | 65.50 | 4.40 | D186091 | 0.40 | 13.90 | 401504 | 1075216 | B | 11290 | 0.0 | 09/01/88 |

Coal Field Information Printout for: CO - Colorado

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-------------------------|----------|-----------|----------|--------|-----|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| APEX MINE | | | | ROUTT | | | | | | | | | |
| 7.80 | 40.80 | 47.20 | 12.00 | | | 66.70 | 4.80 | 0.80 | 401800 | 1070158 | B | 11740 | 09/01/88 |
| | | | | | | | | | 14.10 | 1.60 | | 0.5 | 2579 |
| DH NO 2 | | | | ROUTT | | | | | | | | | |
| 17.10 | 33.20 | 46.40 | 20.40 | | | 59.80 | 4.20 | 0.50 | 401811 | 1070630 | B | 10250 | 09/01/88 |
| | | | | | | | | | 14.10 | 1.00 | | 0.0 | 2912 |
| DH NO 1 | | | | ROUTT | | | | | | | | | |
| 10.50 | 38.00 | 52.40 | 9.60 | | | 69.80 | 5.10 | 0.60 | 401824 | 1070705 | B | 12150 | 09/01/88 |
| | | | | | | | | | 13.90 | 1.00 | | 0.5 | 2579 |
| DH NO 5 | | | | ROUTT | | | | | | | | | |
| 9.40 | 37.90 | 53.80 | 8.30 | | | 70.70 | 4.90 | 0.60 | 401838 | 1070547 | B | 12420 | 09/01/88 |
| | | | | | | | | | 14.60 | 0.90 | | 0.5 | 2579 |
| DH NO 3 | | | | ROUTT | | | | | | | | | |
| 8.00 | 43.80 | 48.60 | 7.60 | | | 70.10 | 5.30 | 2.80 | 401907 | 1070613 | B | 12540 | 09/01/88 |
| | | | | | | | | | 12.70 | 1.50 | | 0.5 | 2003 |
| DH NO 4 | | | | ROUTT | | | | | | | | | |
| 7.50 | 37.30 | 37.80 | 24.90 | | | 55.40 | 4.40 | 3.40 | 401920 | 1070501 | B | 10000 | 09/01/88 |
| | | | | | | | | | 10.70 | 1.20 | | 0.5 | 2264 |
| EDNA STRIP MINE | | | | ROUTT | | | | | | | | | |
| 6.40 | 40.90 | 55.90 | 3.20 | | | 75.90 | 5.10 | 0.60 | 402000 | 1065835 | B | 13290 | 09/01/88 |
| | | | | | | | | | 13.50 | 1.70 | | 0.5 | 2192 |
| ENERGY NO 1 STRIP MINE | | | | ROUTT | | | | | | | | | |
| 5.70 | 37.30 | 43.80 | 18.90 | | | 62.80 | 4.50 | 0.60 | 402035 | 1070315 | B | 11030 | 09/01/88 |
| | | | | | | | | | 11.60 | 1.60 | | 0.5 | 2462 |
| ENERGY NO 1A STRIP MINE | | | | ROUTT | | | | | | | | | |
| 7.00 | 41.00 | 50.80 | 8.20 | | | 71.10 | 5.00 | 0.60 | 402050 | 1070250 | B | 12430 | 09/01/88 |
| | | | | | | | | | 13.30 | 1.80 | | 0.5 | 2417 |
| 8.20 | 37.30 | 54.50 | 8.20 | | | 72.70 | 4.90 | 0.50 | 402055 | 1070645 | B | 12900 | 09/01/88 |
| | | | | | | | | | 11.80 | 1.90 | | 0.0 | 2462 |
| ENERGY STRIP MINE NO 2 | | | | ROUTT | | | | | | | | | |
| 10.40 | 43.50 | 51.90 | 4.60 | | | 74.10 | 5.00 | 0.60 | 402150 | 1071100 | B | 12940 | 09/01/88 |
| | | | | | | | | | 13.60 | 2.10 | | 0.0 | 2138 |
| 8.20 | 38.80 | 54.20 | 7.00 | | | 73.50 | 5.10 | 0.40 | 402157 | 1070635 | B | 13080 | 09/01/88 |
| | | | | | | | | | 12.10 | 1.90 | | 0.0 | 2804 |
| 10.80 | 39.10 | 41.60 | 19.30 | | | 62.00 | 4.10 | 2.50 | 402206 | 1070232 | B | 10990 | 09/01/88 |
| | | | | | | | | | 10.20 | 1.90 | | 0.0 | 2147 |
| 10.30 | 40.10 | 49.00 | 10.90 | | | 68.40 | 4.60 | 1.90 | 402239 | 1070401 | B | 12140 | 09/01/88 |
| | | | | | | | | | 12.00 | 2.20 | | 0.0 | 2111 |
| 9.80 | 39.80 | 53.00 | 7.20 | | | 72.70 | 5.00 | 2.00 | 402257 | 1070154 | B | 12950 | 09/01/88 |
| | | | | | | | | | 11.00 | 2.10 | | 0.0 | 2012 |
| ENERGY NO 3 STRIP MINE | | | | ROUTT | | | | | | | | | |
| 10.90 | 41.20 | 50.70 | 8.10 | | | 69.40 | 4.90 | 0.60 | 402500 | 1065930 | B | 12140 | 09/01/88 |
| | | | | | | | | | 15.30 | 1.70 | | 0.0 | 2777 |

Coal Field Information Printout for: CO - Colorado

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Code Number | Latitude Oxygen | Longitude Nitrogen | Rank Hardgrove | Htg Val Free Swell | Last Chg Hemi Temp |
|--------------------------|----------|-----------|----------|---------|-------|--------|----------|--------|-------------|--------------------|-----------------------|-------------------|-----------------------|-----------------------|
| 8.00 | 28.40 | 36.10 | 35.50 | MOFFAT | 35.50 | 47.80 | 3.30 | 0.70 | D13094 | 402532 11.50 | 1074714 1.20 | B | 8150 0.0 | 09/01/88 2615 |
| NO 2 STRIP MINE | | | | | | | | | | | | | | |
| 8.00 | 39.80 | 50.00 | 10.20 | ROUTT | 10.20 | 69.00 | 4.90 | 0.50 | D176377 | 402615 13.70 | 1070715 1.70 | B | 12100 0.5 | 09/01/88 2741 |
| 12.00 | | | | | | | | | | | | | | |
| 12.00 | 39.40 | 49.60 | 11.00 | ROUTT | 11.00 | 68.20 | 4.70 | 0.80 | D184839 | 402740 13.60 | 1070310 1.70 | B | 12000 0.0 | 09/01/88 2804 |
| 25.20 | | | | | | | | | | | | | | |
| 25.20 | 35.00 | 34.40 | 30.60 | MOFFAT | 30.60 | 45.00 | 2.40 | 0.30 | D187039 | 403130 20.60 | 1073400 1.10 | SB | 6780 0.0 | 09/01/88 2804 |
| GRIZZLY CREEK STRIP MINE | | | | | | | | | | | | | | |
| 17.80 | 38.90 | 45.20 | 15.90 | JACKSON | 15.90 | 60.80 | 4.40 | 1.20 | D174484 | 403200 16.80 | 1062115 0.90 | SB | 10460 0.0 | 09/01/88 2516 |
| GRIZZLY CREEK STRIP MINE | | | | | | | | | | | | | | |
| 14.50 | 34.30 | 28.90 | 36.80 | JACKSON | 36.80 | 44.20 | 3.50 | 0.70 | D174481 | 403200 14.20 | 1062415 0.60 | SB | 7630 0.0 | 09/01/88 0 |
| 18.80 | | | | | | | | | | | | | | |
| 18.80 | 37.10 | 44.40 | 18.50 | MOFFAT | 18.50 | 59.10 | 4.20 | 0.40 | D187042 | 403420 16.00 | 1080300 1.80 | SB | 10070 0.0 | 09/01/88 2354 |
| 20.40 | | | | | | | | | | | | | | |
| 20.40 | 39.80 | 53.30 | 6.90 | MOFFAT | 6.90 | 69.30 | 4.60 | 0.80 | D187041 | 403500 17.30 | 1074600 1.10 | SB | 11760 0.0 | 09/01/88 2156 |
| 29.10 | | | | | | | | | | | | | | |
| 29.10 | 36.50 | 39.90 | 23.60 | MOFFAT | 23.60 | 51.80 | 2.60 | 0.30 | D187040 | 403530 20.90 | 1074930 0.80 | SB | 7830 0.0 | 09/01/88 2291 |
| 16.50 | | | | | | | | | | | | | | |
| 16.50 | 45.50 | 38.80 | 15.70 | MOFFAT | 15.70 | 57.60 | 4.40 | 0.20 | D187045 | 403600 21.40 | 1074200 0.70 | SB | 9810 0.0 | 09/01/88 0 |
| 13.50 | | | | | | | | | | | | | | |
| 13.50 | 37.20 | 49.00 | 13.80 | ROUTT | 13.80 | 65.30 | 4.40 | 0.60 | D184644 | 403620 14.60 | 1070654 1.30 | B | 11310 0.0 | 09/01/88 2552 |
| CANADIAN STRIP MINE | | | | | | | | | | | | | | |
| 14.50 | 37.30 | 55.20 | 7.50 | JACKSON | 7.50 | 71.90 | 4.90 | 0.20 | D170627 | 404127 14.30 | 1060656 1.20 | SB | 12550 0.0 | 09/01/88 2183 |
| CANADIAN STRIP MINE | | | | | | | | | | | | | | |
| 12.80 | 42.80 | 51.40 | 5.80 | JACKSON | 5.80 | 72.30 | 5.10 | 0.80 | D172059 | 404158 14.90 | 1060655 1.10 | SB | 12800 0.0 | 09/01/88 2300 |
| MARR NO 1 STRIP MINE | | | | | | | | | | | | | | |
| 14.20 | 41.30 | 56.30 | 2.40 | JACKSON | 2.40 | 75.00 | 5.00 | 0.20 | D172052 | 404255 16.20 | 1060656 1.20 | SB | 13150 0.0 | 09/01/88 2102 |
| 1.80 | | | | | | | | | | | | | | |
| 1.80 | 35.70 | 42.70 | 21.60 | MOFFAT | 21.60 | 64.30 | 4.50 | 0.80 | D166186 | 404500 7.70 | 1083730 1.10 | B | 11430 0.0 | 09/01/88 0 |

Coal Field Information Printout for

GA - Georgia

Coal Field Information Printout for: GA - Georgia

| Location | | County | | | Code Number | | Latitude | | Longitude | | Rank | Htg Val | Last Chg |
|----------|-----------|----------|-------|----------|-------------|--------|----------|----------|-----------|------------|-------|----------|-----------|
| Moisture | Volatiles | Fxd Crbn | Ash | Carbon | Hydrogen | Sulfur | Oxygen | Nitrogen | Hardgrove | Free Swell | | | Hemi Temp |
| 1.30 | 22.30 | 68.30 | 9.40 | CHATTOGA | W199989 | 4.40 | 1.00 | 343137 | 852932 | B | 14040 | 09/01/88 | 2804 |
| 1.60 | 20.80 | 76.10 | 3.10 | CHATTOGA | W215456 | 4.60 | 1.10 | 343240 | 852942 | B | 15280 | 09/01/88 | 2327 |
| 1.40 | 18.20 | 57.50 | 24.30 | CHATTOGA | W218690 | 3.80 | 0.90 | 343330 | 852812 | B | 11510 | 09/01/88 | 2561 |
| 1.30 | 19.50 | 78.20 | 2.30 | CHATTOGA | W199974 | 4.10 | 0.70 | 343343 | 852921 | B | 15290 | 09/01/88 | 2390 |
| 1.80 | 22.30 | 71.60 | 6.10 | CHATTOGA | W212566 | 4.40 | 0.70 | 343357 | 852626 | B | 14430 | 09/01/88 | 2210 |
| 2.80 | 22.40 | 64.60 | 13.00 | CHATTOGA | W218691 | 4.00 | 1.10 | 343437 | 852803 | B | 12910 | 09/01/88 | 2750 |
| 1.10 | 22.00 | 71.00 | 7.00 | WALKER | W199975 | 3.90 | 2.50 | 343546 | 852917 | B | 14430 | 09/01/88 | 2201 |
| 3.30 | 20.00 | 59.00 | 21.00 | WALKER | W212567 | 3.80 | 1.80 | 343605 | 852517 | B | 11720 | 09/01/88 | 2624 |
| 1.30 | 21.90 | 72.30 | 5.80 | DADE | W199976 | 4.50 | 1.20 | 344054 | 852911 | B | 14660 | 09/01/88 | 2489 |
| 1.40 | 20.40 | 67.10 | 12.50 | DADE | W215454 | 4.20 | 1.00 | 344428 | 852912 | B | 13460 | 09/01/88 | 2759 |
| 2.00 | 22.80 | 64.60 | 12.60 | DADE | W209681 | 4.20 | 0.70 | 344631 | 853041 | B | 13160 | 09/01/88 | 2597 |
| 1.50 | 18.30 | 47.00 | 34.70 | DADE | W209682 | 3.30 | 1.30 | 344730 | 852845 | B | 9550 | 09/01/88 | 2804 |
| 1.70 | 22.10 | 46.10 | 31.80 | DADE | W209680 | 3.70 | 0.80 | 344756 | 853101 | B | 10100 | 09/01/88 | 2804 |
| 1.90 | 26.20 | 57.20 | 16.60 | DADE | W209679 | 4.30 | 1.10 | 344920 | 853022 | B | 12490 | 09/01/88 | 2417 |
| 3.50 | 20.70 | 77.60 | 1.70 | WALKER | W212565 | 4.30 | 0.50 | 344953 | 852632 | B | 15010 | 09/01/88 | 2480 |
| 1.20 | 21.00 | 76.50 | 2.50 | WALKER | W209684 | 4.70 | 0.50 | 344959 | 852546 | B | 15380 | 09/01/88 | 2390 |

Coal Field Information Printout for: GA - Georgia

| Location | County | | Fxd Crbn | Ash | Carbon | Code Number | | Latitude Oxygen | Longitude | | Rank | Htg Val | | Last Chg |
|----------|----------|-----------|----------|-------|--------|-------------|--------|--------------------|-----------|-----------|-------|------------|-----------|----------|
| | Moisture | Volatiles | | | | Hydrogen | Sulfur | | Nitrogen | Hardgrove | | Free Swell | Hemi Temp | |
| 1.10 | 22.00 | 75.80 | DADE | 2.20 | 86.80 | W199986 | 0.80 | 345031 | 852648 | B | 15330 | 9.0 | 2381 | 09/01/88 |
| 1.50 | 20.70 | 67.80 | DADE | 11.50 | 74.80 | W199984 | 4.50 | 345033 | 852645 | B | 13340 | 7.5 | 2210 | 09/01/88 |
| 1.30 | 20.80 | 76.10 | DADE | 3.10 | 87.30 | W199983 | 0.60 | 345043 | 852712 | B | 15110 | 8.5 | 2804 | 09/01/88 |
| 1.10 | 20.60 | 76.50 | WALKER | 2.90 | 87.60 | W212563 | 0.60 | 345049 | 852442 | B | 15200 | 7.5 | 2552 | 09/01/88 |
| 1.50 | 20.70 | 69.30 | WALKER | 10.00 | 79.90 | W212564 | 4.30 | 345115 | 852625 | B | 13990 | 9.0 | 2696 | 09/01/88 |
| 1.30 | 20.70 | 71.80 | WALKER | 7.50 | 80.90 | W199987 | 0.70 | 345158 | 852508 | B | 14340 | 7.0 | 2804 | 09/01/88 |
| 1.40 | 23.20 | 74.60 | WALKER | 2.20 | 86.50 | W209683 | 0.50 | 345231 | 852518 | B | 15240 | 5.0 | 2507 | 09/01/88 |
| 1.50 | 21.20 | 76.70 | WALKER | 2.10 | 86.80 | W199988 | 0.50 | 345330 | 852422 | B | 15210 | 7.0 | 2399 | 09/01/88 |
| 1.80 | 21.60 | 52.10 | DADE | 26.30 | 62.20 | W209677 | 0.90 | 345440 | 853122 | B | 10950 | 6.0 | 2804 | 09/01/88 |
| 2.10 | 25.70 | 57.50 | DADE | 16.80 | 71.00 | W209678 | 0.50 | 345639 | 853533 | B | 12450 | 2.0 | 2804 | 09/01/88 |
| 6.70 | 27.10 | 64.40 | DADE | 8.50 | 74.70 | W199979 | 0.50 | 345653 | 853037 | B | 12490 | 0.0 | 2201 | 09/01/88 |
| 1.40 | 27.50 | 64.80 | DADE | 7.70 | 75.60 | W199981 | 4.70 | 345655 | 853047 | B | 14080 | 9.0 | 2327 | 09/01/88 |
| 6.20 | 24.30 | 63.20 | DADE | 12.50 | 70.20 | W199980 | 0.50 | 345702 | 853044 | B | 11880 | 0.0 | 2804 | 09/01/88 |
| 1.30 | 26.50 | 59.10 | DADE | 14.40 | 72.00 | W218692 | 5.40 | 345714 | 853010 | B | 13030 | 8.5 | 2003 | 09/01/88 |
| 1.50 | 24.30 | 64.80 | DADE | 10.90 | 77.90 | W199977 | 0.90 | 345736 | 853108 | B | 13680 | 9.0 | 2804 | 09/01/88 |
| 1.40 | 27.40 | 66.70 | DADE | 5.90 | 80.60 | W199978 | 3.10 | 345804 | 853116 | B | 14470 | 9.0 | 2210 | 09/01/88 |

Coal Field Information Printout for: GA - Georgia

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------|----------|-----------|----------|--------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | Ash | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| 1.50 | 28.40 | 69.10 | 2.50 | DADE | 85.90 | 5.00 | 0.50 | 34.5818 | 853356 | B | 15190 | 09/01/88 |
| | | | | | | | | 4.50 | 1.60 | | 9.0 | 2372 |

Coal Field Information Printout for

IA - Iowa

Coal Field Information Printout for: IA - Iowa

| Location Moisture | Volatiles | Fxd Crbn | County Ash | Carbon | Hydrogen | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank Hardgrove | Htg Val Free Swell | Last Chg Hemi Temp |
|----------------------|-----------|----------|---------------|--------|----------|--------|--------------------|-----------------------|-------------------|-----------------------|-----------------------|
| 12.20 | 38.70 | 49.20 | DAVIS | 67.00 | 4.60 | 5.10 | 403750 10.40 | 922545 0.80 | B | 12110 1.0 | 09/01/88 2111 |
| 4.70 | 32.20 | 37.10 | APPANOOSE | 48.40 | 3.40 | 8.70 | 404242 7.90 | 925158 0.90 | B | 8890 0.5 | 09/01/88 2084 |
| 3.30 | 39.50 | 47.10 | APPANOOSE | 66.80 | 4.60 | 5.60 | 404315 8.40 | 923835 1.20 | B | 11900 1.0 | 09/01/88 2111 |
| 2.70 | 23.90 | 49.50 | DAVIS | 55.20 | 4.30 | 4.80 | 405254 8.20 | 921625 0.90 | B | 10300 1.0 | 09/01/88 2372 |
| 2.80 | 39.60 | 44.50 | APPANOOSE | 63.90 | 4.40 | 8.10 | 405322 6.60 | 923824 1.10 | B | 11760 1.0 | 09/01/88 2147 |
| 5.70 | 42.80 | 44.30 | WAPELLO | 68.40 | 4.50 | 3.90 | 405403 9.20 | 922439 1.10 | B | 11900 1.0 | 09/01/88 2129 |
| 4.30 | 36.80 | 38.30 | JEFFERSON | 51.80 | 4.00 | 9.90 | 405456 8.30 | 921040 1.10 | B | 9680 0.0 | 09/01/88 2012 |
| 12.50 | 44.60 | 45.80 | WAPELLO | 71.40 | 5.30 | 4.00 | 405950 8.80 | 923145 0.90 | B | 12890 1.5 | 09/01/88 1958 |
| 9.80 | 42.90 | 45.70 | WAPELLO | 69.50 | 4.90 | 6.30 | 410000 6.80 | 923000 1.10 | B | 12690 0.0 | 09/01/88 0 |
| 13.10 | 43.30 | 41.20 | MONROE | 64.90 | 4.50 | 4.40 | 410000 9.40 | 925230 1.30 | B | 11500 0.0 | 09/01/88 0 |
| 11.90 | 42.00 | 42.70 | MONROE | 65.30 | 4.70 | 4.10 | 410000 9.20 | 930000 1.40 | B | 11830 0.0 | 09/01/88 0 |
| 7.00 | 42.70 | 32.90 | WAPELLO | 57.70 | 4.10 | 5.70 | 410017 7.10 | 923715 1.00 | B | 10230 1.0 | 09/01/88 2516 |
| 13.60 | 43.90 | 45.30 | WAPELLO | 70.50 | 5.00 | 4.20 | 410154 8.50 | 923817 1.00 | B | 12700 1.5 | 09/01/88 2111 |
| 9.90 | 36.00 | 39.40 | WAPELLO | 56.00 | 4.00 | 9.00 | 410221 5.50 | 923107 0.90 | B | 10260 0.5 | 09/01/88 2138 |
| 14.00 | 31.70 | 42.30 | WAPELLO | 53.20 | 3.70 | 10.30 | 410238 5.80 | 923125 1.00 | B | 9500 0.0 | 09/01/88 2030 |
| 9.10 | 31.00 | 32.90 | WAPELLO | 37.80 | 2.70 | 21.10 | 410240 1.70 | 923645 0.60 | B | 7600 0.0 | 09/01/88 2237 |

Coal Field Information Printout for: IA - Iowa

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-------------------|----------|-----------|----------|---------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| ----- | | | | | | | | | | | | | |
| LOVILLA NO 2 MINE | | | | MONROE | | | D186075 | | 410310 | 923410 | B | 12110 | 09/01/88 |
| 16.20 | 40.30 | 44.30 | 44.30 | 15.40 | 67.50 | 3.80 | 4.30 | 3.80 | 7.60 | 1.40 | | 1.0 | 2111 |
| ----- | | | | | | | | | | | | | |
| 15.10 | 40.20 | 41.90 | 41.90 | 17.90 | 65.30 | 3.70 | D186076 | | 410310 | 930410 | B | 11630 | 09/01/88 |
| | | | | | | | 4.50 | 3.70 | 7.30 | 1.30 | | 1.0 | 2156 |
| ----- | | | | | | | | | | | | | |
| 17.00 | 38.70 | 48.20 | 48.20 | 13.10 | 68.40 | 6.10 | D186062 | | 410635 | 930950 | B | 12330 | 09/01/88 |
| | | | | | | | 4.40 | 6.10 | 6.60 | 1.40 | | 1.0 | 2201 |
| ----- | | | | | | | | | | | | | |
| 14.50 | 38.20 | 47.10 | 47.10 | 14.70 | 65.50 | 6.20 | D166029 | | 410730 | 924500 | B | 11890 | 09/01/88 |
| | | | | | | | 4.40 | 6.20 | 8.00 | 1.20 | | 0.0 | 0 |
| ----- | | | | | | | | | | | | | |
| 11.10 | 43.10 | 46.00 | 46.00 | 10.90 | 67.80 | 6.30 | D176187 | | 411029 | 923445 | B | 12260 | 09/01/88 |
| | | | | | | | 5.20 | 6.30 | 8.70 | 1.10 | | 1.5 | 2084 |
| ----- | | | | | | | | | | | | | |
| 15.40 | 39.60 | 44.90 | 44.90 | 15.50 | 64.10 | 8.40 | D185602 | | 411128 | 924515 | B | 11760 | 09/01/88 |
| | | | | | | | 4.50 | 8.40 | 6.60 | 0.90 | | 1.0 | 2111 |
| ----- | | | | | | | | | | | | | |
| 13.90 | 38.80 | 45.60 | 45.60 | 15.50 | 61.90 | 10.30 | D185601 | | 411135 | 924540 | B | 11490 | 09/01/88 |
| | | | | | | | 4.40 | 10.30 | 6.90 | 0.90 | | 1.0 | 2255 |
| ----- | | | | | | | | | | | | | |
| 13.00 | 43.40 | 44.20 | 44.20 | 12.40 | 68.80 | 5.40 | D186066 | | 411340 | 924720 | B | 12570 | 09/01/88 |
| | | | | | | | 4.90 | 5.40 | 7.60 | 0.90 | | 1.0 | 2255 |
| ----- | | | | | | | | | | | | | |
| STAR MINE | | | | MAHASKA | | | D186065 | | 411340 | 924800 | B | 11310 | 09/01/88 |
| 13.10 | 39.80 | 42.70 | 42.70 | 17.50 | 61.90 | 7.90 | 4.40 | 7.90 | 7.30 | 1.00 | | 1.0 | 2111 |
| ----- | | | | | | | | | | | | | |
| 12.20 | 40.00 | 40.30 | 40.30 | 19.70 | 61.10 | 6.80 | D186074 | | 411445 | 923642 | B | 11090 | 09/01/88 |
| | | | | | | | 4.20 | 6.80 | 7.20 | 1.00 | | 1.0 | 2111 |
| ----- | | | | | | | | | | | | | |
| 15.60 | 42.20 | 45.40 | 45.40 | 12.40 | 68.40 | 4.50 | D185603 | | 411715 | 924438 | B | 12340 | 09/01/88 |
| | | | | | | | 4.70 | 4.50 | 8.80 | 1.20 | | 1.0 | 2201 |
| ----- | | | | | | | | | | | | | |
| 21.10 | 40.10 | 45.70 | 45.70 | 14.20 | 64.70 | 4.10 | D185606 | | 412615 | 930140 | B | 11470 | 09/01/88 |
| | | | | | | | 4.30 | 4.10 | 11.60 | 1.10 | | 0.0 | 2102 |
| ----- | | | | | | | | | | | | | |
| 14.50 | 41.80 | 40.40 | 40.40 | 17.80 | 63.20 | 2.90 | D185611 | | 412915 | 931225 | B | 10980 | 09/01/88 |
| | | | | | | | 4.30 | 2.90 | 10.70 | 1.10 | | 2.0 | 2786 |
| ----- | | | | | | | | | | | | | |
| 12.10 | 38.00 | 43.80 | 43.80 | 18.20 | 63.70 | 2.60 | D166039 | | 420000 | 930730 | B | 11290 | 09/01/88 |
| | | | | | | | 4.40 | 2.60 | 9.70 | 1.40 | | 0.0 | 0 |

Coal Field Information Printout for

ID - Idaho

Coal Field Information Printout for: ID - Idaho

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------------|----------|-----------|----------|--------|------|--------|----------|---------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| ----- | | | | | | | | | | | | | |
| COAL BANKS SPRING MINE | | | | CASSIA | | | | | | | | | |
| 8.80 | 38.60 | 30.30 | 31.10 | 46.60 | 4.20 | 2.50 | 420413 | 1135908 | L | 8230 | 0.0 | 0.0 | 2192 |
| ----- | | | | | | | | | | | | | |
| 20.70 | 39.70 | 31.30 | 29.00 | 44.90 | 3.50 | 1.80 | 431451 | 1164637 | L | 7390 | 0.0 | 0.0 | 2408 |
| ----- | | | | | | | | | | | | | |
| BROWN BEAR MINE | | | | TETON | | | | | | | | | |
| 3.30 | 36.40 | 50.70 | 12.90 | 69.60 | 5.20 | 0.50 | 434310 | 1111822 | B | 12220 | 0.0 | 0.0 | 2453 |
| ----- | | | | | | | | | | | | | |
| PINTAR MINE | | | | TETON | | | | | | | | | |
| 4.40 | 38.60 | 51.00 | 10.40 | 69.80 | 4.90 | 0.60 | 434425 | 1112008 | B | 12170 | 0.0 | 0.0 | 2174 |

Coal Field Information Printout for

IL - Illinois

Coal Field Information Printout for: IL - Illinois

| Location Moisture | Volatiles | Fxd Crbn | County Ash | Carbon | Hydrogen | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank Hardgrove | Htg Val Free Swell | Last Chg Hemi Temp |
|----------------------|-----------|----------|---------------|--------|----------|--------|--------------------|-----------------------|-------------------|-----------------------|-----------------------|
| 3.50 | 38.20 | 50.20 | PERRY | 11.60 | 58.40 | 4.90 | 380059 | 893312 | B | 12230 | 09/01/88 |
| | | | | | | | 10.10 | 1.00 | | 1.0 | 2057 |
| 4.10 | 36.40 | 56.30 | PERRY | 7.30 | 72.30 | 4.80 | 380101 | 893305 | B | 12870 | 09/01/88 |
| | | | | | | | 10.70 | 1.10 | | 1.5 | 1967 |
| 5.50 | 39.30 | 53.90 | PERRY | 6.80 | 72.70 | 5.10 | 380101 | 893307 | B | 13020 | 09/01/88 |
| | | | | | | | 10.80 | 1.00 | | 1.0 | 1967 |
| 5.70 | 40.80 | 52.00 | PERRY | 7.20 | 73.30 | 5.10 | 380101 | 893309 | B | 13020 | 09/01/88 |
| | | | | | | | 10.10 | 1.30 | | 2.5 | 2129 |
| 4.40 | 38.50 | 47.30 | FRANKLIN | 14.20 | 63.90 | 4.60 | 380206 | 885748 | B | 11960 | 09/01/88 |
| | | | | | | | 6.80 | 1.40 | | 5.0 | 2129 |
| 4.70 | 40.20 | 51.10 | FRANKLIN | 8.70 | 73.40 | 5.20 | 380206 | 885754 | B | 13270 | 09/01/88 |
| | | | | | | | 8.30 | 1.60 | | 4.5 | 2264 |
| 6.20 | 35.10 | 62.30 | JEFFERSON | 2.60 | 78.50 | 5.20 | 380850 | 890350 | B | 13940 | 09/01/88 |
| | | | | | | | 11.90 | 1.20 | | 1.0 | 2156 |
| 5.60 | 40.40 | 51.10 | MONTGOMERY | 8.50 | 71.10 | 5.20 | 390502 | 892048 | B | 12660 | 09/01/88 |
| | | | | | | | 11.10 | 1.20 | | 2.5 | 2129 |
| 8.10 | 40.40 | 51.00 | MONTGOMERY | 8.60 | 69.40 | 5.10 | 390505 | 892045 | B | 12320 | 09/01/88 |
| | | | | | | | 12.00 | 0.50 | | 1.0 | 1823 |
| 6.40 | 43.70 | 46.80 | MONTGOMERY | 9.50 | 73.10 | 5.50 | 390505 | 892050 | B | 13290 | 09/01/88 |
| | | | | | | | 7.80 | 0.90 | | 1.0 | 2129 |
| 4.10 | 36.70 | 53.20 | JEFFERSON | 10.10 | 71.00 | 4.90 | 390808 | 890930 | B | 12610 | 09/01/88 |
| | | | | | | | 10.20 | 1.10 | | 1.0 | 2012 |
| 11.80 | 40.40 | 49.20 | MACOUPIN | 10.40 | 69.30 | 4.90 | 392839 | 894336 | B | 12340 | 09/01/88 |
| | | | | | | | 10.10 | 1.20 | | 4.0 | 2066 |
| 4.20 | 38.60 | 55.20 | FULTON | 6.20 | 73.20 | 5.30 | 401730 | 902230 | B | 13220 | 09/01/88 |
| | | | | | | | 10.70 | 1.50 | | 1.0 | 2057 |
| 2.80 | 38.20 | 51.40 | FULTON | 10.40 | 71.80 | 5.10 | 402600 | 900100 | B | 12860 | 09/01/88 |
| | | | | | | | 9.30 | 1.40 | | 3.5 | 2255 |
| 3.10 | 38.60 | 54.70 | PEORIA | 6.70 | 73.90 | 5.20 | 404400 | 895640 | B | 13290 | 09/01/88 |
| | | | | | | | 7.50 | 1.20 | | 4.5 | 2111 |
| 3.70 | 38.50 | 50.50 | KNOX | 11.00 | 67.90 | 4.90 | 410230 | 901345 | B | 12290 | 09/01/88 |
| | | | | | | | 10.20 | 1.10 | | 1.0 | 1994 |

Coal Field Information Printout for

IN - Indiana

Coal Field Information Printout for: IN - Indiana

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------------|----------|-----------|----------|---------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| STRIP | 8.70 | 36.00 | 51.30 | WARRICK | 12.70 | 66.60 | 4.70 | 4.90 | 375738 | 872046 | B | 12000 | 09/01/88 |
| | | | | | | | | | 9.60 | 1.50 | | 1.0 | 2048 |
| STRIP | 10.00 | 37.70 | 53.30 | WARRICK | 9.00 | 71.70 | 5.10 | 2.60 | 375739 | 872046 | B | 12810 | 09/01/88 |
| | | | | | | | | | 10.00 | 1.60 | | 1.0 | 2246 |
| WRIGHT MINE | | | | WARRICK | | | D173482 | | 375818 | 871504 | B | 13120 | 09/01/88 |
| | 10.80 | 42.60 | 49.20 | | 8.20 | 72.80 | 5.20 | 3.30 | 9.00 | 1.50 | | 0.0 | 0 |
| STRIP | 8.40 | 34.60 | 51.80 | WARRICK | 13.60 | 66.00 | 4.50 | 5.20 | 380047 | 871539 | B | 11790 | 09/01/88 |
| | | | | | | | | | 9.40 | 1.30 | | 0.0 | 1994 |
| STRIP | 11.00 | 37.30 | 57.80 | SPENCER | 4.90 | 75.90 | 5.30 | 1.60 | 380102 | 865624 | B | 13440 | 09/01/88 |
| | | | | | | | | | 10.50 | 1.80 | | 1.0 | 2228 |
| STRIP | 9.50 | 40.10 | 50.30 | PERRY | 9.60 | 70.00 | 5.00 | 5.90 | 380105 | 864000 | B | 12750 | 09/01/88 |
| | | | | | | | | | 8.20 | 1.30 | | 1.5 | 2615 |
| STRIP | 8.10 | 39.30 | 50.80 | PERRY | 9.90 | 69.10 | 4.90 | 6.00 | 380105 | 864001 | B | 12630 | 09/01/88 |
| | | | | | | | | | 8.80 | 1.30 | | 1.0 | 2507 |
| CORUM PIT NO 1 | 12.70 | 41.00 | 55.80 | SPENCER | 3.20 | 72.60 | 4.90 | 1.80 | 380126 | 865812 | B | 13050 | 09/01/88 |
| | | | | | | | | | 16.60 | 0.90 | | 0.0 | 1958 |
| STRIP | 8.50 | 40.80 | 51.90 | SPENCER | 7.30 | 71.00 | 5.20 | 4.20 | 380208 | 865732 | B | 12950 | 09/01/88 |
| | | | | | | | | | 11.20 | 1.10 | | 1.0 | 1994 |
| STRIP | 7.80 | 38.90 | 53.60 | SPENCER | 7.50 | 70.70 | 5.10 | 4.60 | 380208 | 865733 | B | 12840 | 09/01/88 |
| | | | | | | | | | 10.70 | 1.40 | | 1.0 | 2048 |
| STRIP | 9.80 | 36.40 | 56.30 | SPENCER | 7.30 | 70.80 | 4.90 | 4.30 | 380212 | 865731 | B | 12720 | 09/01/88 |
| | | | | | | | | | 11.10 | 1.60 | | 1.0 | 2093 |
| STRIP | 10.70 | 35.50 | 57.60 | SPENCER | 6.90 | 72.30 | 5.10 | 4.50 | 380213 | 865731 | B | 12960 | 09/01/88 |
| | | | | | | | | | 10.10 | 1.10 | | 1.0 | 2102 |
| PAINTER PIT | 5.70 | 40.60 | 51.10 | SPENCER | 8.30 | 68.30 | 5.10 | 6.20 | 380219 | 865708 | B | 12700 | 09/01/88 |
| | | | | | | | | | 11.10 | 1.00 | | 1.0 | 2075 |
| STRIP | 9.70 | 38.20 | 48.70 | WARRICK | 13.10 | 67.00 | 4.80 | 4.10 | 380345 | 872511 | B | 12030 | 09/01/88 |
| | | | | | | | | | 9.40 | 1.60 | | 1.0 | 2129 |
| STRIP | 9.60 | 38.50 | 49.30 | WARRICK | 12.20 | 68.20 | 4.80 | 4.40 | 380345 | 872512 | B | 12260 | 09/01/88 |
| | | | | | | | | | 8.90 | 1.50 | | 1.0 | 2120 |
| STRIP | 7.80 | 38.70 | 52.80 | WARRICK | 8.50 | 71.70 | 4.90 | 3.50 | 380514 | 871544 | B | 12940 | 09/01/88 |
| | | | | | | | | | 9.90 | 1.50 | | 3.5 | 2021 |

Coal Field Information Printout for: IN - Indiana

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank | Htg Val Free Swell | Last Chg Hemi Temp | |
|-------------------|----------|-----------|----------|---------|--------|----------|--------|--------------------|-----------------------|--------|-----------------------|-----------------------|----------|
| STRIP | 8.20 | 39.00 | 51.20 | WARRICK | 69.90 | W191045 | 5.00 | 3.70 | 380514 | 871545 | B | 12650 | 09/01/88 |
| | | | | | | | | 10.10 | 1.50 | | 2.0 | 2111 | |
| STRIP | 8.00 | 40.80 | 49.50 | WARRICK | 69.30 | W191057 | 4.90 | 4.70 | 380516 | 871615 | B | 12610 | 09/01/88 |
| | | | | | | | | 10.40 | 1.00 | | 1.0 | 1931 | |
| STRIP | 9.00 | 39.30 | 51.20 | WARRICK | 70.20 | W191058 | 5.20 | 4.20 | 380517 | 871615 | B | 12710 | 09/01/88 |
| | | | | | | | | 9.80 | 1.10 | | 2.0 | 1976 | |
| MS NO 2 PIT | 8.60 | 37.60 | 52.10 | WARRICK | 71.40 | W193122 | 5.00 | 2.80 | 380534 | 871544 | B | 12830 | 09/01/88 |
| | | | | | | | | 9.10 | 1.40 | | 4.0 | 2327 | |
| LYNNVILLE III PIT | 14.60 | 33.70 | 59.60 | WARRICK | 75.40 | W193124 | 4.80 | 1.10 | 380542 | 871403 | B | 13290 | 09/01/88 |
| | | | | | | | | 10.10 | 1.90 | | 1.0 | 2651 | |
| STRIP | 8.90 | 40.00 | 45.50 | WARRICK | 67.30 | W191052 | 4.60 | 3.40 | 380654 | 872432 | B | 12000 | 09/01/88 |
| | | | | | | | | 9.10 | 1.10 | | 1.0 | 2273 | |
| STRIP | 10.60 | 36.20 | 47.50 | WARRICK | 63.50 | W192625 | 4.40 | 5.30 | 380715 | 872102 | B | 11480 | 09/01/88 |
| | | | | | | | | 9.00 | 1.50 | | 1.0 | 2309 | |
| STRIP | 10.00 | 38.70 | 49.60 | WARRICK | 67.90 | W192624 | 4.90 | 4.70 | 380716 | 872102 | B | 12230 | 09/01/88 |
| | | | | | | | | 9.20 | 1.60 | | 1.0 | 2408 | |
| STRIP | 9.40 | 40.80 | 49.80 | WARRICK | 70.80 | W192626 | 4.90 | 3.60 | 380718 | 872057 | B | 12650 | 09/01/88 |
| | | | | | | | | 9.80 | 1.50 | | 1.0 | 2102 | |
| NO 3 KAETZEL PIT | 3.80 | 39.10 | 51.10 | SPENCER | 71.60 | W194391 | 4.90 | 3.30 | 380744 | 865526 | B | 12920 | 09/01/88 |
| | | | | | | | | 8.90 | 1.50 | | 3.5 | 2147 | |
| NO 3 KAETZEL PIT | 3.80 | 40.30 | 51.70 | SPENCER | 73.90 | W194392 | 5.00 | 2.80 | 380747 | 865526 | B | 13240 | 09/01/88 |
| | | | | | | | | 8.80 | 1.50 | | 4.0 | 2165 | |
| STRIP | 10.10 | 36.50 | 53.60 | SPENCER | 70.30 | W191034 | 4.90 | 2.90 | 380835 | 865554 | B | 12600 | 09/01/88 |
| | | | | | | | | 10.60 | 1.40 | | 1.0 | 2111 | |
| STRIP | 15.90 | 35.90 | 56.30 | SPENCER | 71.40 | W191037 | 4.70 | 0.80 | 380835 | 865555 | B | 12320 | 09/01/88 |
| | | | | | | | | 13.90 | 1.40 | | 0.0 | 2264 | |
| STRIP | 8.80 | 35.40 | 53.60 | SPENCER | 69.70 | W191035 | 5.00 | 2.40 | 380847 | 865751 | B | 12490 | 09/01/88 |
| | | | | | | | | 10.50 | 1.40 | | 1.0 | 2291 | |
| STRIP | 8.40 | 35.40 | 50.70 | SPENCER | 67.60 | W191036 | 4.80 | 2.40 | 380847 | 865752 | B | 12000 | 09/01/88 |
| | | | | | | | | 10.00 | 1.30 | | 1.0 | 2282 | |
| LYNNVILLE MINE | 11.30 | 39.70 | 47.60 | WARRICK | 69.50 | D173487 | 4.80 | 3.80 | 381030 | 870735 | B | 12440 | 09/01/88 |
| | | | | | | | | 7.80 | 1.40 | | 0.0 | 0 | |

Coal Field Information Printout for: IN - Indiana

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Free Swell | Htg Val | Last Chg |
|---------------|----------|-----------|----------|---------|-------|--------|----------|--------|----------|-----------|------|------------|---------|----------|
| STRIP | 9.80 | 36.00 | 53.90 | WARRICK | 10.10 | 68.00 | 4.90 | 4.80 | 381352 | 871312 | B | 12230 | 1.0 | 09/01/88 |
| LOHR PIT | 9.50 | 36.60 | 56.30 | PIKE | 7.10 | 74.80 | 5.00 | 1.50 | 381356 | 871802 | B | 13040 | 1.5 | 09/01/88 |
| STRIP | 6.30 | 42.00 | 48.80 | PIKE | 9.20 | 69.80 | 5.30 | 4.50 | 381606 | 871736 | B | 12690 | 4.0 | 09/01/88 |
| STRIP | 8.00 | 44.20 | 46.90 | PIKE | 8.90 | 71.30 | 5.20 | 3.90 | 381810 | 870846 | B | 13000 | 4.0 | 09/01/88 |
| STRIP | 9.40 | 43.30 | 47.10 | PIKE | 9.60 | 70.20 | 5.00 | 4.60 | 381810 | 870847 | B | 12790 | 1.0 | 09/01/88 |
| PIT NO 4 | 5.10 | 35.90 | 47.50 | GIBSON | 16.60 | 65.10 | 4.60 | 3.70 | 381855 | 872210 | B | 11680 | 2.0 | 09/01/88 |
| PIT NO 4 | 6.20 | 39.70 | 46.80 | GIBSON | 13.50 | 66.60 | 4.70 | 5.10 | 381855 | 872220 | B | 12040 | 3.0 | 09/01/88 |
| STRIP | 9.70 | 45.20 | 46.50 | PIKE | 8.30 | 74.00 | 5.10 | 3.50 | 382006 | 871504 | B | 13230 | 0.0 | 09/01/88 |
| HOPF NO 2 PIT | 2.10 | 39.80 | 46.30 | DUBOIS | 13.90 | 66.10 | 4.70 | 7.90 | 382038 | 870129 | B | 12240 | 5.0 | 09/01/88 |
| HOPF NO 2 PIT | 2.20 | 41.00 | 45.40 | DUBOIS | 13.60 | 66.90 | 4.80 | 6.50 | 382038 | 870130 | B | 12330 | 5.0 | 09/01/88 |
| STRIP | 6.70 | 35.20 | 56.40 | PIKE | 8.40 | 71.10 | 5.30 | 2.90 | 382109 | 870609 | B | 12790 | 1.0 | 09/01/88 |
| STRIP | 7.60 | 38.90 | 52.40 | PIKE | 8.70 | 70.70 | 5.10 | 3.90 | 382109 | 870610 | B | 12680 | 1.0 | 09/01/88 |
| STRIP | 10.00 | 33.20 | 59.10 | PIKE | 7.70 | 71.40 | 4.90 | 2.80 | 382210 | 871512 | B | 12690 | 1.0 | 09/01/88 |
| STRIP | 11.10 | 35.50 | 48.30 | DUBOIS | 16.20 | 67.00 | 4.50 | 3.30 | 382224 | 870058 | B | 12010 | 1.0 | 09/01/88 |
| STRIP | 9.70 | 35.90 | 55.40 | DUBOIS | 8.70 | 72.50 | 5.00 | 2.80 | 382225 | 870058 | B | 12960 | 1.0 | 09/01/88 |
| STRIP | 9.00 | 39.60 | 53.70 | PIKE | 6.70 | 74.20 | 5.30 | 1.50 | 382238 | 871405 | B | 13150 | 1.0 | 09/01/88 |

Coal Field Information Printout for: IN - Indiana

| Location | Moisture | Volatiles | Fxd Crbn | Ash | County | Carbon | Hydrogen | Sulfur | Code Number | Latitude Oxygen | Longitude Nitrogen | Rank | Htg Val Free Swell | Last Chg Hemi Temp |
|-----------------------|----------|-----------|----------|-------|----------|--------|----------|--------|-------------|--------------------|-----------------------|------|-----------------------|-----------------------|
| STRIP | 9.20 | 37.80 | 53.30 | 8.90 | PIKE | 70.80 | 5.00 | 3.30 | W191055 | 382239 | 871405 | B | 12600 | 09/01/88 |
| | | | | | | | | | | 10.50 | 1.50 | | 1.0 | 2057 |
| STRIP | 7.60 | 38.30 | 53.00 | 8.70 | PIKE | 71.20 | 5.40 | 3.70 | W190532 | 382528 | 871236 | B | 12810 | 09/01/88 |
| | | | | | | | | | | 9.90 | 1.10 | | 1.5 | 2048 |
| STRIP | 16.20 | 39.10 | 58.50 | 2.40 | CLAY | 80.30 | 5.10 | 1.00 | W192834 | 382530 | 870552 | B | 14180 | 09/01/88 |
| | | | | | | | | | | 9.50 | 1.70 | | 1.0 | 2354 |
| R&H MINE | 9.50 | 43.20 | 47.40 | 9.40 | PIKE | 71.40 | 5.00 | 5.90 | D173483 | 382530 | 871642 | B | 12990 | 09/01/88 |
| | | | | | | | | | | 7.00 | 1.30 | | 0.0 | 0 |
| REESE PIT | 8.40 | 36.00 | 49.80 | 14.20 | PIKE | 68.70 | 4.90 | 1.50 | W188932 | 382542 | 871658 | B | 12110 | 09/01/88 |
| | | | | | | | | | | 9.20 | 1.50 | | 1.5 | 2336 |
| STRIP | 11.10 | 38.90 | 56.90 | 4.20 | MARTIN | 75.60 | 4.90 | 4.10 | W192629 | 383446 | 865235 | B | 13790 | 09/01/88 |
| | | | | | | | | | | 9.70 | 1.50 | | 1.0 | 2093 |
| STRIP | 12.10 | 36.60 | 46.30 | 17.10 | MARTIN | 65.90 | 4.70 | 1.10 | W192628 | 383447 | 865235 | B | 11720 | 09/01/88 |
| | | | | | | | | | | 9.80 | 1.40 | | 1.0 | 2804 |
| NEWELL PIT NO 1 | 11.20 | 40.90 | 49.80 | 9.30 | KNOX | 72.10 | 5.20 | 3.50 | W188948 | 385327 | 871414 | B | 12960 | 09/01/88 |
| | | | | | | | | | | 8.50 | 1.40 | | 4.0 | 2129 |
| STRIP | 6.30 | 41.30 | 47.90 | 10.80 | KNOX | 70.80 | 4.70 | 3.40 | D172303 | 385345 | 871455 | B | 12720 | 09/01/88 |
| | | | | | | | | | | 9.00 | 1.30 | | 0.0 | 0 |
| STRIP | 7.50 | 38.50 | 44.90 | 16.60 | SULLIVAN | 66.10 | 4.70 | 3.80 | D172304 | 385720 | 871530 | B | 11920 | 09/01/88 |
| | | | | | | | | | | 7.50 | 1.30 | | 0.0 | 0 |
| STRIP | 6.50 | 46.50 | 46.50 | 7.00 | GREENE | 74.80 | 5.40 | 2.70 | D172305 | 390250 | 870340 | B | 13670 | 09/01/88 |
| | | | | | | | | | | 8.70 | 1.40 | | 0.0 | 0 |
| DUGGER | 15.00 | 33.40 | 58.20 | 8.40 | SULLIVAN | 75.10 | 4.90 | 0.40 | W193120 | 390349 | 872023 | B | 13200 | 09/01/88 |
| | | | | | | | | | | 9.60 | 1.60 | | 1.0 | 2804 |
| STRIP | 12.70 | 35.90 | 53.70 | 10.40 | SULLIVAN | 71.30 | 5.40 | 1.60 | W191049 | 390447 | 871522 | B | 12760 | 09/01/88 |
| | | | | | | | | | | 10.20 | 1.10 | | 1.0 | 2399 |
| STRIP | 11.50 | 37.20 | 50.60 | 12.20 | SULLIVAN | 69.90 | 5.00 | 1.80 | W191046 | 390447 | 871523 | B | 12440 | 09/01/88 |
| | | | | | | | | | | 9.60 | 1.50 | | 1.0 | 2381 |
| JH&L COAL CO PIT NO 7 | 8.40 | 41.60 | 51.50 | 6.90 | GREENE | 72.40 | 5.20 | 2.90 | W188946 | 390458 | 871250 | B | 13080 | 09/01/88 |
| | | | | | | | | | | 11.20 | 1.40 | | 1.5 | 2012 |
| STRIP | 8.80 | 36.30 | 54.60 | 9.10 | SULLIVAN | 74.80 | 4.80 | 0.40 | D172309 | 390550 | 872010 | B | 13150 | 09/01/88 |
| | | | | | | | | | | 9.30 | 1.60 | | 0.0 | 0 |

Coal Field Information Printout for: IN - Indiana

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|--------------------|----------|-----------|----------|----------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| STRIP | 9.70 | 39.40 | 50.30 | GREENE | 10.30 | 70.10 | 5.10 | 2.80 | 390654 | 871049 | B | 12600 | 09/01/88 |
| | | | | | | | | | 10.10 | 1.60 | | 1.0 | 2084 |
| STRIP | 9.30 | 36.20 | 52.70 | GREENE | 11.10 | 69.30 | 4.60 | 3.10 | 390654 | 871050 | B | 12470 | 09/01/88 |
| | | | | | | | | | 10.70 | 1.20 | | 1.0 | 2156 |
| STRIP | 6.30 | 41.00 | 47.50 | SULLIVAN | 11.50 | 70.60 | 4.90 | 2.70 | 390840 | 871940 | B | 12730 | 09/01/88 |
| | | | | | | | | | 8.90 | 1.40 | | 0.0 | 0 |
| STRIP | 5.00 | 41.30 | 46.00 | SULLIVAN | 12.70 | 68.50 | 4.80 | 4.70 | 391135 | 871709 | B | 12480 | 09/01/88 |
| | | | | | | | | | 8.00 | 1.30 | | 0.0 | 0 |
| STRIP | 13.80 | 36.20 | 53.50 | SULLIVAN | 10.30 | 69.90 | 4.70 | 3.80 | 391148 | 872106 | B | 12470 | 09/01/88 |
| | | | | | | | | | 9.80 | 1.50 | | 1.0 | 2129 |
| BIRDSONG MINE | 5.70 | 42.30 | 48.30 | SULLIVAN | 9.40 | 71.80 | 5.30 | 3.90 | 391235 | 871439 | B | 13020 | 09/01/88 |
| | | | | | | | | | 8.30 | 1.30 | | 4.0 | 2246 |
| BIRDSONG MINE | 4.60 | 44.90 | 46.10 | SULLIVAN | 9.00 | 71.80 | 4.80 | 3.40 | 391235 | 871440 | B | 13060 | 09/01/88 |
| | | | | | | | | | 9.70 | 1.30 | | 5.0 | 2552 |
| STRIP | 9.10 | 35.80 | 56.10 | CLAY | 8.10 | 71.50 | 5.00 | 2.90 | 391245 | 871142 | B | 12810 | 09/01/88 |
| | | | | | | | | | 11.00 | 1.50 | | 1.0 | 2057 |
| STRIP | 6.60 | 38.30 | 43.70 | CLAY | 18.00 | 65.50 | 4.60 | 2.50 | 391245 | 871210 | B | 11760 | 09/01/88 |
| | | | | | | | | | 8.00 | 1.40 | | 0.0 | 0 |
| PIT NO 2 | 13.90 | 33.30 | 57.10 | OWEN | 9.60 | 73.40 | 4.70 | 2.00 | 391434 | 870136 | B | 13010 | 09/01/88 |
| | | | | | | | | | 8.90 | 1.40 | | 1.0 | 2246 |
| STRIP | 21.40 | 34.40 | 55.70 | OWEN | 9.90 | 68.80 | 4.10 | 0.50 | 391634 | 870205 | B | 11480 | 09/01/88 |
| | | | | | | | | | 15.60 | 1.10 | | 0.0 | 2912 |
| STRIP | 5.70 | 37.90 | 53.20 | OWEN | 8.90 | 74.50 | 4.80 | 2.20 | 391655 | 865735 | B | 13170 | 09/01/88 |
| | | | | | | | | | 8.20 | 1.40 | | 0.0 | 0 |
| STRIP | 15.60 | 32.10 | 57.70 | OWEN | 10.20 | 70.50 | 4.50 | 2.00 | 391710 | 865736 | B | 12380 | 09/01/88 |
| | | | | | | | | | 11.70 | 1.10 | | 0.0 | 2678 |
| BLUE HOLE NO 1 PIT | 12.30 | 42.50 | 49.40 | VIGO | 8.10 | 73.30 | 5.40 | 3.10 | 392204 | 871627 | B | 13140 | 09/01/88 |
| | | | | | | | | | 8.70 | 1.40 | | 2.5 | 2093 |
| STRIP | 15.60 | 36.50 | 57.80 | CLAY | 5.70 | 76.90 | 5.30 | 0.80 | 392407 | 870614 | B | 13640 | 09/01/88 |
| | | | | | | | | | 8.90 | 1.40 | | 1.0 | 2912 |
| STRIP | 13.70 | 26.00 | 66.90 | CLAY | 7.10 | 75.40 | 4.70 | 1.00 | 392504 | 871400 | B | 13330 | 09/01/88 |
| | | | | | | | | | 10.80 | 1.00 | | 1.5 | 2417 |

Coal Field Information Printout for: IN - Indiana

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|--------------------------|----------|-----------|----------|------------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| STRIP | 16.10 | 35.90 | 58.60 | CLAY | 5.50 | 77.80 | W19233 | 5.40 | 392530 | 870552 | B | 13680 | 09/01/88 |
| | | | | | | | | 1.00 | 8.80 | 1.50 | | 1.0 | 2768 |
| STRIP | 15.40 | 36.10 | 57.50 | CLAY | 6.40 | 76.60 | W192632 | 5.10 | 392531 | 870552 | B | 13630 | 09/01/88 |
| | | | | | | | | 0.90 | 9.50 | 1.50 | | 1.0 | 2786 |
| STRIP | 12.00 | 35.00 | 49.50 | CLAY | 15.50 | 66.00 | W190548 | 4.70 | 392635 | 871150 | B | 11900 | 09/01/88 |
| | | | | | | | | 2.80 | 10.00 | 1.00 | | 1.0 | 2597 |
| TURNER PIT NO 1 | 13.00 | 42.30 | 49.70 | CLAY | 8.00 | 72.40 | W188940 | 5.20 | 392945 | 870922 | B | 13080 | 09/01/88 |
| | | | | | | | | 4.70 | 8.20 | 1.50 | | 1.5 | 2084 |
| STRIP | 13.00 | 26.90 | 66.30 | CLAY | 6.80 | 74.80 | W190544 | 4.90 | 393256 | 870618 | B | 13360 | 09/01/88 |
| | | | | | | | | 1.60 | 10.60 | 1.30 | | 2.0 | 2399 |
| STRIP | 13.10 | 37.10 | 55.80 | CLAY | 7.10 | 74.00 | W190536 | 4.80 | 393603 | 870613 | B | 13140 | 09/01/88 |
| | | | | | | | | 1.70 | 11.20 | 1.20 | | 1.0 | 2201 |
| UNIVERSAL SOUTH PIT NO 2 | 10.30 | 40.20 | 45.40 | VIGO | 14.40 | 66.30 | W188950 | 4.90 | 393624 | 872856 | B | 12080 | 09/01/88 |
| | | | | | | | | 4.20 | 9.00 | 1.20 | | 2.5 | 2129 |
| TURNER PIT | 14.10 | 40.40 | 51.70 | PARKE | 7.90 | 74.20 | W188938 | 5.30 | 393627 | 870601 | B | 13130 | 09/01/88 |
| | | | | | | | | 2.20 | 9.00 | 1.40 | | 1.0 | 2246 |
| UNIVERSAL SOUTH PIT NO 2 | 10.80 | 36.00 | 41.60 | VERMILLION | 22.40 | 60.50 | W188952 | 4.50 | 393741 | 872951 | B | 10770 | 09/01/88 |
| | | | | | | | | 3.30 | 8.40 | 0.90 | | 1.5 | 2138 |
| BAIRD PT | 10.00 | 39.10 | 49.50 | VERMILLION | 11.40 | 66.90 | W193121 | 5.00 | 395344 | 873017 | B | 12300 | 09/01/88 |
| | | | | | | | | 5.70 | 9.70 | 1.30 | | 1.0 | 2057 |
| STRIP | 11.00 | 36.10 | 49.00 | VERMILLION | 14.90 | 63.80 | W191059 | 4.60 | 395344 | 873018 | B | 11560 | 09/01/88 |
| | | | | | | | | 5.40 | 10.40 | 0.90 | | 1.0 | 1994 |
| STRIP | 11.60 | 36.10 | 50.90 | VERMILLION | 13.00 | 67.50 | W191054 | 4.70 | 395344 | 873019 | B | 12060 | 09/01/88 |
| | | | | | | | | 3.60 | 10.20 | 1.00 | | 1.0 | 2066 |
| STRIP | 9.20 | 40.30 | 48.10 | VERMILLION | 11.60 | 66.90 | W191043 | 5.20 | 395427 | 873046 | B | 12160 | 09/01/88 |
| | | | | | | | | 4.80 | 10.20 | 1.30 | | 1.0 | 1985 |
| STRIP | 13.30 | 39.60 | 45.30 | FOUNTAIN | 15.10 | 65.00 | D172310 | 4.50 | 395755 | 872455 | B | 12020 | 09/01/88 |
| | | | | | | | | 7.20 | 7.00 | 1.20 | | 0.0 | 0 |

Coal Field Information Printout for

KS - Kansas

Coal Field Information Printout for: KS - Kansas

| Location | | Volatiles | | County | | Code Number | | Latitude | | Longitude | | Rank | | Htg Val | | Last Chg | |
|--------------------|--|-----------|-------|----------|----------|-------------|----------|----------|--------|-----------|-----------|------------|-----------|----------|-----|----------|--|
| Moisture | | | | Fxd Crbn | Ash | Carbon | Hydrogen | Sulfur | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp | | | | |
| ----- | | | | | | | | | | | | | | | | | |
| WILKINSON INC MINE | | 3.30 | 32.30 | 52.10 | CHEROKEE | 70.50 | D176054 | 4.40 | 4.20 | 371500 | 944210 | B | 12470 | 09/01/88 | 7.5 | 1976 | |
| ----- | | | | | | | | | | | | | | | | | |
| WILKINSON INC MINE | | 3.30 | 32.30 | 52.10 | CHEROKEE | 70.50 | D176053 | 4.40 | 4.20 | 371500 | 944212 | B | 12470 | 09/01/88 | 7.5 | 1976 | |
| ----- | | | | | | | | | | | | | | | | | |
| CLEMENS NO 25 MINE | | 2.30 | 34.20 | 44.30 | CRAWFORD | 59.00 | D180069 | 3.90 | 12.60 | 372121 | 943910 | B | 11230 | 09/01/88 | 7.5 | 2507 | |
| ----- | | | | | | | | | | | | | | | | | |
| CLEMENS NO 25 MINE | | 2.50 | 34.80 | 44.90 | CRAWFORD | 61.50 | D180071 | 4.50 | 10.50 | 372128 | 943902 | B | 11610 | 09/01/88 | 8.5 | 2417 | |
| ----- | | | | | | | | | | | | | | | | | |
| CLEMENS NO 25 MINE | | 3.90 | 36.00 | 50.20 | CRAWFORD | 68.50 | D180073 | 4.60 | 7.00 | 372135 | 943845 | B | 12630 | 09/01/88 | 9.0 | 2237 | |
| ----- | | | | | | | | | | | | | | | | | |
| CLEMENS NO 25 MINE | | 1.70 | 35.90 | 46.60 | CRAWFORD | 65.80 | D176050 | 4.50 | 8.40 | 372150 | 943908 | B | 12150 | 09/01/88 | 6.0 | 2066 | |
| ----- | | | | | | | | | | | | | | | | | |
| CLEMENS NO 25 MINE | | 1.70 | 35.90 | 46.60 | CRAWFORD | 65.80 | D176051 | 4.50 | 8.40 | 372151 | 943908 | B | 12150 | 09/01/88 | 6.0 | 2066 | |
| ----- | | | | | | | | | | | | | | | | | |
| CLEMENS NO 25 MINE | | 1.70 | 35.90 | 46.60 | CRAWFORD | 65.80 | D176052 | 4.50 | 8.40 | 372417 | 943908 | B | 12150 | 09/01/88 | 6.0 | 2066 | |
| ----- | | | | | | | | | | | | | | | | | |
| DELL LAMB MINE | | 5.50 | 38.50 | 44.10 | WILSON | 65.60 | D176056 | 4.40 | 4.70 | 373009 | 953331 | B | 11810 | 09/01/88 | 4.0 | 1976 | |
| ----- | | | | | | | | | | | | | | | | | |
| DELL LAMB MINE | | 5.50 | 38.50 | 44.10 | WILSON | 65.60 | D176055 | 4.40 | 4.70 | 373009 | 953333 | B | 11810 | 09/01/88 | 4.0 | 1976 | |
| ----- | | | | | | | | | | | | | | | | | |
| CLEMENS NO 22 MINE | | 1.90 | 36.90 | 44.50 | CRAWFORD | 66.70 | D176045 | 4.60 | 5.20 | 373608 | 943955 | B | 11940 | 09/01/88 | 6.0 | 1949 | |
| ----- | | | | | | | | | | | | | | | | | |
| CLEMENS NO 22 MINE | | 2.20 | 38.80 | 48.10 | CRAWFORD | 71.90 | D176046 | 4.90 | 3.50 | 373620 | 943955 | B | 12830 | 09/01/88 | 7.5 | 2102 | |
| ----- | | | | | | | | | | | | | | | | | |
| CLEMENS NO 22 MINE | | 2.20 | 38.80 | 48.10 | CRAWFORD | 71.90 | D176047 | 4.90 | 3.50 | 373623 | 943955 | B | 12830 | 09/01/88 | 7.5 | 2102 | |
| ----- | | | | | | | | | | | | | | | | | |
| CLEMENS NO 22 MINE | | 2.60 | 36.20 | 51.30 | CRAWFORD | 72.10 | D176048 | 4.80 | 4.80 | 373627 | 943955 | B | 12980 | 09/01/88 | 8.0 | 1940 | |
| ----- | | | | | | | | | | | | | | | | | |
| CLEMENS NO 22 MINE | | 2.60 | 36.20 | 51.30 | CRAWFORD | 72.10 | D176049 | 4.80 | 4.80 | 373630 | 943955 | B | 12980 | 09/01/88 | 8.0 | 1940 | |
| ----- | | | | | | | | | | | | | | | | | |
| CLEMENS NO 22 MINE | | 2.60 | 36.80 | 44.00 | CRAWFORD | 67.10 | D183115 | 4.50 | 3.90 | 373638 | 944010 | B | 12000 | 09/01/88 | 8.5 | 2048 | |

Coal Field Information Printout for: KS - Kansas

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------------------|----------|-----------|----------|----------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| CLEMENS NO 22 MINE | | | | CRAWFORD | | | | | | | | | |
| 2.30 | 37.40 | 48.50 | | 14.10 | 70.90 | | 5.00 | 4.90 | 373640 | 944010 | B | 12990 | 09/01/88 |
| | | | | | | | | | 3.90 | 1.20 | | 8.0 | 2264 |
| BILLS COAL CO, FT SCOTT MINE | | | | BOURBON | | | | | | | | | |
| 3.50 | 37.90 | 47.90 | | 14.20 | 69.70 | | 4.90 | 4.80 | 374508 | 943737 | B | 12850 | 09/01/88 |
| | | | | | | | | | 5.30 | 1.10 | | 9.0 | 2012 |
| | | | | FRANKLIN | | | | | | | | | |
| 3.30 | 41.10 | 52.00 | | 6.90 | 73.70 | | 5.00 | 1.70 | 382743 | 952748 | B | 12980 | 09/01/88 |
| | | | | | | | | | 10.70 | 2.00 | | 2.5 | 2102 |

Coal Field Information Printout for

KY - Kentucky

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Code Number | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------|----------|-----------|----------|----------|--------|----------|-------------|----------|-----------|-----------|------------|-----------|
| | | | | Ash | | | Sulfur | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| SURFACE MINE | | | | BELL | | | | | | | | |
| 2.10 | 31.80 | 46.10 | 22.10 | | 64.40 | 4.80 | 0.70 | 361114 | 833711 | B | 11500 | 09/01/88 |
| | | | | | | | | 6.20 | 1.80 | | 5.0 | 2741 |
| SURFACE MINE | | | | BELL | | | | | | | | |
| 1.90 | 37.40 | 55.00 | 7.60 | | 77.10 | 5.10 | 0.80 | 363515 | 834523 | B | 13730 | 09/01/88 |
| | | | | | | | | 7.50 | 1.90 | | 4.5 | 2678 |
| SURFACE MINE | | | | BELL | | | | | | | | |
| 1.80 | 37.80 | 51.20 | 11.00 | | 73.30 | 5.20 | 2.50 | 363600 | 834650 | B | 13320 | 09/01/88 |
| | | | | | | | | 6.30 | 1.70 | | 5.0 | 2282 |
| SURFACE MINE | | | | BELL | | | | | | | | |
| 1.80 | 38.10 | 58.60 | 3.30 | | 81.90 | 5.50 | 0.70 | 363601 | 834648 | B | 14860 | 09/01/88 |
| | | | | | | | | 6.70 | 1.90 | | 6.5 | 2687 |
| SURFACE MINE | | | | BELL | | | | | | | | |
| 2.10 | 28.30 | 32.20 | 39.50 | | 47.70 | 3.70 | 0.90 | 363603 | 834701 | B | 8480 | 09/01/88 |
| | | | | | | | | 7.00 | 1.20 | | 1.0 | 2804 |
| SURFACE MINE | | | | BELL | | | | | | | | |
| 2.50 | 35.60 | 60.80 | 3.60 | | 80.20 | 5.30 | 0.80 | 363606 | 834700 | B | 14470 | 09/01/88 |
| | | | | | | | | 8.30 | 1.80 | | 4.5 | 2723 |
| SURFACE MINE | | | | BELL | | | | | | | | |
| 2.30 | 38.50 | 56.50 | 5.00 | | 79.90 | 5.40 | 1.20 | 363610 | 834655 | B | 14340 | 09/01/88 |
| | | | | | | | | 6.50 | 2.00 | | 6.0 | 2543 |
| SURFACE MINE | | | | BELL | | | | | | | | |
| 1.90 | 33.60 | 51.00 | 15.40 | | 69.50 | 4.60 | 2.20 | 363614 | 834659 | B | 12490 | 09/01/88 |
| | | | | | | | | 6.50 | 1.80 | | 3.5 | 2480 |
| SURFACE MINE | | | | BELL | | | | | | | | |
| 1.80 | 39.60 | 56.70 | 3.70 | | 80.00 | 5.60 | 0.70 | 363614 | 834702 | B | 14530 | 09/01/88 |
| | | | | | | | | 8.00 | 2.00 | | 4.0 | 2723 |
| SURFACE MINE | | | | BELL | | | | | | | | |
| 2.30 | 37.30 | 57.60 | 5.10 | | 78.80 | 5.30 | 1.40 | 363615 | 834704 | B | 14190 | 09/01/88 |
| | | | | | | | | 7.50 | 1.90 | | 2.0 | 2147 |
| SURFACE MINE | | | | MCCREARY | | | | | | | | |
| 3.10 | 36.80 | 58.50 | 4.70 | | 79.70 | 5.30 | 0.70 | 363655 | 842509 | B | 14260 | 09/01/88 |
| | | | | | | | | 7.60 | 2.00 | | 3.0 | 2498 |
| SURFACE MINE | | | | MCCREARY | | | | | | | | |
| 2.90 | 37.60 | 55.60 | 6.80 | | 78.00 | 5.20 | 0.90 | 363656 | 842513 | B | 13920 | 09/01/88 |
| | | | | | | | | 7.30 | 1.80 | | 4.0 | 2804 |
| UNDERGROUND MINE | | | | BELL | | | | | | | | |
| 2.40 | 31.50 | 46.40 | 22.10 | | 63.60 | 4.30 | 2.30 | 363711 | 834916 | B | 11480 | 09/01/88 |
| | | | | | | | | 6.10 | 1.60 | | 5.0 | 2633 |
| UNDERGROUND MINE | | | | BELL | | | | | | | | |
| 2.50 | 33.90 | 53.70 | 12.40 | | 73.70 | 4.90 | 0.70 | 363729 | 834913 | B | 13030 | 09/01/88 |
| | | | | | | | | 6.50 | 1.80 | | 4.0 | 2696 |
| SURFACE MINE | | | | WHITLEY | | | | | | | | |
| 2.20 | 35.90 | 61.20 | 2.90 | | 81.40 | 5.30 | 0.90 | 363729 | 841158 | B | 14590 | 09/01/88 |
| | | | | | | | | 7.40 | 2.10 | | 4.0 | 2138 |
| UNDERGROUND MINE | | | | BELL | | | | | | | | |
| 3.50 | 36.70 | 55.20 | 8.10 | | 76.00 | 5.10 | 0.70 | 363823 | 834851 | B | 13620 | 09/01/88 |
| | | | | | | | | 8.10 | 2.00 | | 3.5 | 2804 |

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------|----------|-----------|----------|---------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| UNDERGROUND MINE | 3.60 | 34.10 | 45.40 | BELL | 20.50 | 65.00 | W207900 | 0.60 | 363824 | 835037 | B | 11620 | 09/01/88 |
| | | | | | | | 4.50 | 0.60 | 8.10 | 1.30 | | 1.5 | 2804 |
| PORTAL | | | | BELL | | | W207813 | | 363825 | 834852 | B | 13630 | 09/01/88 |
| | 2.80 | 36.90 | 54.30 | | 8.80 | 75.90 | 5.10 | 0.70 | 7.50 | 2.00 | | 5.0 | 2804 |
| UNDERGROUND MINE | 3.00 | 37.10 | 58.30 | BELL | 4.60 | 79.70 | W207812 | 0.60 | 363837 | 834826 | B | 14200 | 09/01/88 |
| | | | | | | | 5.20 | 0.60 | 8.00 | 1.90 | | 5.0 | 2804 |
| SURFACE MINE | | | | BELL | | | W207899 | | 363850 | 834907 | B | 9650 | 09/01/88 |
| | 2.80 | 28.50 | 38.80 | | 32.70 | 54.00 | 3.80 | 0.80 | 7.40 | 1.30 | | 1.0 | 2804 |
| UNDERGROUND MINE | 3.00 | 30.60 | 45.40 | BELL | 24.00 | 62.20 | W207811 | 1.20 | 363857 | 834854 | B | 11080 | 09/01/88 |
| | | | | | | | 4.30 | 1.20 | 6.90 | 1.40 | | 4.0 | 2660 |
| SURFACE MINE | | | | BELL | | | W215417 | | 363947 | 834850 | B | 14020 | 09/01/88 |
| | 2.40 | 37.90 | 56.30 | | 5.80 | 78.60 | 5.30 | 0.80 | 7.70 | 1.80 | | 4.5 | 2804 |
| SURFACE MINE | | | | BELL | | | W215416 | | 363948 | 834855 | B | 14520 | 09/01/88 |
| | 2.50 | 37.80 | 59.40 | | 2.80 | 81.30 | 5.40 | 0.90 | 7.90 | 1.70 | | 3.5 | 2768 |
| SURFACE MINE | | | | BELL | | | W208200 | | 364114 | 833711 | B | 14750 | 09/01/88 |
| | 2.20 | 38.10 | 58.70 | | 3.20 | 81.60 | 5.50 | 0.70 | 6.80 | 2.20 | | 4.5 | 2444 |
| DRILL CORE | | | | WHITLEY | | | W212089 | | 364114 | 841235 | B | 13470 | 09/01/88 |
| | 2.20 | 40.60 | 50.20 | | 9.20 | 74.70 | 5.20 | 2.90 | 6.20 | 1.80 | | 4.5 | 2192 |
| UNDERGROUND MINE | | | | BELL | | | W208057 | | 364117 | 833436 | B | 12200 | 09/01/88 |
| | 2.20 | 35.80 | 45.90 | | 18.30 | 66.30 | 4.80 | 2.70 | 6.00 | 1.90 | | 7.0 | 2372 |
| UNDERGROUND MINE | | | | BELL | | | W208056 | | 364117 | 833439 | B | 12110 | 09/01/88 |
| | 2.20 | 35.20 | 46.10 | | 18.70 | 66.20 | 4.90 | 2.40 | 5.90 | 1.90 | | 6.5 | 2507 |
| UNDERGROUND MINE | | | | BELL | | | W208058 | | 364119 | 833654 | B | 12500 | 09/01/88 |
| | 2.20 | 32.90 | 49.90 | | 17.20 | 69.50 | 4.80 | 1.10 | 5.60 | 1.80 | | 7.0 | 2777 |
| DRILL CORE | | | | WHITLEY | | | W212090 | | 364156 | 841100 | B | 13060 | 09/01/88 |
| | 2.10 | 40.40 | 47.80 | | 11.80 | 72.10 | 5.10 | 2.60 | 6.70 | 1.70 | | 3.0 | 2570 |
| SURFACE MINE | | | | BELL | | | W207901 | | 364210 | 833422 | B | 14620 | 09/01/88 |
| | 2.40 | 38.50 | 57.60 | | 3.90 | 81.10 | 5.50 | 0.70 | 6.60 | 2.20 | | 7.0 | 2759 |
| UNDERGROUND MINE | | | | WHITLEY | | | W203625 | | 364220 | 835701 | B | 11170 | 09/01/88 |
| | 2.30 | 30.60 | 45.60 | | 23.80 | 63.30 | 4.10 | 0.80 | 6.40 | 1.60 | | 1.0 | 2606 |
| SURFACE MINE | | | | BELL | | | W215404 | | 364225 | 834520 | B | 14690 | 09/01/88 |
| | 2.10 | 36.60 | 61.40 | | 2.00 | 83.30 | 5.30 | 0.70 | 6.70 | 2.00 | | 4.5 | 2399 |

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-------------------|----------|-----------|----------|----------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| SURFACE MINE | 3.10 | 40.70 | 52.90 | KNOX | 6.40 | 77.80 | W213937 | 0.70 | 36424.5 | 83533 | B | 13860 | 09/01/88 |
| | | | | | | | 5.30 | | 7.80 | 2.00 | | 4.0 | 2732 |
| SURFACE MINE | 7.30 | 39.80 | 57.30 | WHITLEY | 2.90 | 79.60 | W213954 | 0.90 | 36424.5 | 840322 | B | 14030 | 09/01/88 |
| | | | | | | | 5.20 | | 9.20 | 2.20 | | 1.5 | 2327 |
| SURFACE MINE | 2.90 | 40.30 | 56.30 | WHITLEY | 3.40 | 79.60 | W213953 | 2.20 | 364300 | 835737 | B | 14410 | 09/01/88 |
| | | | | | | | 5.40 | | 7.20 | 2.20 | | 4.5 | 2030 |
| SURFACE MINE | 3.30 | 37.30 | 50.40 | WHITLEY | 12.30 | 71.40 | W213952 | 2.00 | 364304 | 835731 | B | 12670 | 09/01/88 |
| | | | | | | | 4.90 | | 7.50 | 1.90 | | 3.0 | 2030 |
| UNDERGROUND MINE | 6.40 | 38.60 | 59.80 | KNOX | 1.60 | 82.50 | W213936 | 0.80 | 364310 | 835557 | B | 14620 | 09/01/88 |
| | | | | | | | 5.50 | | 7.40 | 2.20 | | 3.5 | 2264 |
| SURFACE MINE | 2.70 | 44.60 | 46.90 | MCCREARY | 8.50 | 73.40 | W208217 | 4.30 | 364438 | 843634 | B | 13420 | 09/01/88 |
| | | | | | | | 5.30 | | 7.10 | 1.40 | | 5.0 | 2570 |
| CONSTRUCTION SITE | 2.00 | 39.40 | 57.30 | BELL | 3.30 | 81.30 | W213023 | 1.60 | 364510 | 833345 | B | 14670 | 09/01/88 |
| | | | | | | | 5.40 | | 5.90 | 2.50 | | 8.0 | 2210 |
| SURFACE MINE | 3.80 | 34.50 | 55.10 | BELL | 10.40 | 74.30 | W214779 | 0.70 | 364518 | 834547 | B | 13090 | 09/01/88 |
| | | | | | | | 4.70 | | 8.10 | 1.80 | | 1.5 | 2804 |
| SURFACE MINE | 2.00 | 37.70 | 55.80 | BELL | 6.50 | 78.80 | W213022 | 2.00 | 364519 | 833229 | B | 14130 | 09/01/88 |
| | | | | | | | 5.30 | | 5.50 | 1.90 | | 7.5 | 2327 |
| SURFACE MINE | 4.60 | 38.70 | 52.40 | BELL | 8.90 | 74.70 | W214780 | 1.00 | 364520 | 834545 | B | 13420 | 09/01/88 |
| | | | | | | | 5.00 | | 8.60 | 1.80 | | 1.0 | 2678 |
| SURFACE MINE | 3.60 | 38.70 | 57.60 | BELL | 3.70 | 81.90 | W213944 | 0.90 | 364522 | 833228 | B | 14530 | 09/01/88 |
| | | | | | | | 5.30 | | 6.20 | 2.00 | | 6.5 | 2570 |
| SURFACE MINE | 1.60 | 35.90 | 52.80 | BELL | 11.30 | 73.20 | W215419 | 3.40 | 364548 | 834317 | B | 13060 | 09/01/88 |
| | | | | | | | 4.80 | | 5.60 | 1.70 | | 3.5 | 2246 |
| SURFACE MINE | 2.40 | 34.70 | 54.30 | BELL | 11.00 | 71.90 | W215420 | 2.70 | 364550 | 834323 | B | 13140 | 09/01/88 |
| | | | | | | | 4.90 | | 7.70 | 1.80 | | 3.5 | 2291 |
| UNDERGROUND MINE | 1.80 | 36.70 | 47.50 | BELL | 15.80 | 70.10 | W213024 | 1.60 | 364606 | 833231 | B | 12590 | 09/01/88 |
| | | | | | | | 4.80 | | 6.00 | 1.70 | | 6.5 | 2723 |
| UNDERGROUND MINE | 2.40 | 37.30 | 59.00 | BELL | 3.70 | 80.70 | W212762 | 0.90 | 364643 | 833843 | B | 14460 | 09/01/88 |
| | | | | | | | 5.20 | | 7.60 | 1.90 | | 4.0 | 2516 |
| SURFACE MINE | 2.20 | 38.90 | 57.80 | BELL | 3.30 | 81.20 | W215439 | 0.70 | 364645 | 833731 | B | 14630 | 09/01/88 |
| | | | | | | | 5.40 | | 7.10 | 2.30 | | 5.0 | 2237 |

Coal Field Information Printout for: KY - Kentucky

| Location | | County | | | Code Number | | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------|-----------|----------|----------|--------|-------------|--------|----------|-----------|-----------|------------|-----------|
| Moisture | Volatiles | Fxd Crbn | Ash | Carbon | Hydrogen | Sulfur | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| <hr/> | | | | | | | | | | | |
| SURFACE MINE | | | BELL | | W215408 | | 364645 | 833922 | B | 13810 | 09/01/88 |
| 1.30 | 39.80 | 51.90 | 8.30 | 75.20 | 5.20 | 4.40 | 5.20 | 1.70 | | 5.0 | 2111 |
| <hr/> | | | | | | | | | | | |
| SURFACE MINE | | | KNOX | | W215398 | | 364805 | 835621 | B | 14600 | 09/01/88 |
| 1.70 | 40.30 | 55.80 | 3.90 | 79.80 | 5.40 | 2.60 | 6.30 | 2.00 | | 4.0 | 2012 |
| <hr/> | | | | | | | | | | | |
| SURFACE MINE | | | WHITLEY | | W207985 | | 364805 | 840333 | B | 14550 | 09/01/88 |
| 3.60 | 38.40 | 58.70 | 2.90 | 81.00 | 5.50 | 0.70 | 7.80 | 2.10 | | 3.5 | 2201 |
| <hr/> | | | | | | | | | | | |
| UNDERGROUND MINE | | | HARLAN | | W215429 | | 364806 | 831212 | B | 13970 | 09/01/88 |
| 2.00 | 36.10 | 56.70 | 7.20 | 77.80 | 5.10 | 1.10 | 7.10 | 1.70 | | 3.5 | 2552 |
| <hr/> | | | | | | | | | | | |
| SURFACE MINE | | | WHITLEY | | W205325 | | 364826 | 840517 | B | 14600 | 09/01/88 |
| 4.50 | 37.70 | 60.20 | 2.10 | 81.80 | 5.50 | 0.90 | 7.60 | 2.10 | | 5.0 | 2417 |
| <hr/> | | | | | | | | | | | |
| SURFACE MINE | | | WHITLEY | | W207984 | | 364828 | 840523 | B | 14360 | 09/01/88 |
| 5.20 | 37.80 | 59.60 | 2.60 | 81.10 | 5.40 | 0.80 | 8.10 | 2.00 | | 1.5 | 2048 |
| <hr/> | | | | | | | | | | | |
| UNDERGROUND MINE | | | HARLAN | | W215431 | | 364840 | 831312 | B | 12580 | 09/01/88 |
| 1.70 | 34.40 | 51.20 | 14.40 | 70.60 | 4.80 | 1.90 | 6.50 | 1.80 | | 3.0 | 2552 |
| <hr/> | | | | | | | | | | | |
| SURFACE MINE | | | KNOX | | W214263 | | 364841 | 835234 | B | 14650 | 09/01/88 |
| 2.90 | 38.80 | 57.60 | 3.60 | 80.50 | 5.50 | 1.70 | 6.80 | 1.90 | | 4.5 | 2120 |
| <hr/> | | | | | | | | | | | |
| PORTAL | | | HARLAN | | W215430 | | 364845 | 831221 | B | 14210 | 09/01/88 |
| 2.00 | 41.30 | 53.40 | 5.30 | 78.90 | 5.40 | 2.20 | 6.50 | 1.70 | | 3.0 | 2156 |
| <hr/> | | | | | | | | | | | |
| SURFACE MINE | | | KNOX | | W214264 | | 364845 | 835239 | B | 14100 | 09/01/88 |
| 2.80 | 41.50 | 52.70 | 5.80 | 77.30 | 5.40 | 4.20 | 5.20 | 2.10 | | 4.5 | 2300 |
| <hr/> | | | | | | | | | | | |
| SURFACE MINE | | | WAYNE | | W212054 | | 364859 | 843710 | B | 13400 | 09/01/88 |
| 2.40 | 41.70 | 49.30 | 9.00 | 73.90 | 5.30 | 3.20 | 7.10 | 1.50 | | 5.5 | 2210 |
| <hr/> | | | | | | | | | | | |
| UNDERGROUND MINE | | | HARLAN | | W215428 | | 364934 | 831007 | B | 12600 | 09/01/88 |
| 2.60 | 34.30 | 52.10 | 13.60 | 71.30 | 4.70 | 1.00 | 7.80 | 1.60 | | 2.5 | 2498 |
| <hr/> | | | | | | | | | | | |
| SURFACE MINE | | | KNOX | | W213119 | | 365005 | 835928 | B | 14560 | 09/01/88 |
| 2.80 | 39.50 | 57.00 | 3.50 | 79.80 | 5.40 | 1.90 | 7.50 | 1.90 | | 3.5 | 2003 |
| <hr/> | | | | | | | | | | | |
| SURFACE MINE | | | MCCREARY | | W214269 | | 365005 | 842938 | B | 13800 | 09/01/88 |
| 5.80 | 35.30 | 58.80 | 5.90 | 78.00 | 5.10 | 1.00 | 8.20 | 1.80 | | 4.0 | 2804 |
| <hr/> | | | | | | | | | | | |
| UNDERGROUND MINE | | | HARLAN | | W215434 | | 365006 | 831507 | B | 13450 | 09/01/88 |
| 2.90 | 34.60 | 56.90 | 8.50 | 76.30 | 4.80 | 1.40 | 7.40 | 1.60 | | 2.5 | 2687 |
| <hr/> | | | | | | | | | | | |
| SURFACE MINE | | | MCCREARY | | W214268 | | 365006 | 842938 | B | 13250 | 09/01/88 |
| 4.50 | 38.00 | 52.60 | 9.40 | 74.00 | 5.10 | 1.70 | 8.00 | 1.80 | | 5.0 | 2579 |

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank Hardgrove | Htg Val Free Swell | Last Chg Hemi Temp |
|------------------|----------|-----------|----------|----------|-------|--------|----------|--------|--------------------|-----------------------|-------------------|-----------------------|-----------------------|
| SURFACE MINE | 3.40 | 37.30 | 57.20 | KNOX | 5.50 | 78.60 | W213120 | 0.80 | 365011 7.90 | 835942 1.90 | B | 14200 3.5 | 09/01/88 2273 |
| SURFACE MINE | 3.90 | 37.80 | 60.50 | WHITLEY | 1.70 | 83.10 | W214772 | 0.70 | 365012 7.10 | 840455 2.00 | B | 14840 5.0 | 09/01/88 2417 |
| SURFACE MINE | 4.80 | 37.70 | 58.60 | WHITLEY | 3.70 | 81.00 | W214775 | 1.00 | 365012 7.00 | 840500 2.00 | B | 14300 5.5 | 09/01/88 2678 |
| UNDERGROUND MINE | 2.10 | 35.60 | 55.70 | HARLAN | 8.70 | 76.00 | W215433 | 1.40 | 365015 6.70 | 831659 2.10 | B | 13600 4.0 | 09/01/88 2723 |
| UNDERGROUND MINE | 2.30 | 31.60 | 54.90 | HARLAN | 13.50 | 73.00 | W215432 | 0.70 | 365019 6.50 | 831706 1.70 | B | 12810 3.5 | 09/01/88 2804 |
| UNDERGROUND MINE | 2.90 | 36.30 | 52.20 | MCCREARY | 11.50 | 71.60 | W212055 | 2.00 | 365039 8.10 | 842632 1.90 | B | 12710 3.5 | 09/01/88 2597 |
| UNDERGROUND MINE | 1.70 | 39.40 | 56.00 | BELL | 4.60 | 79.80 | W215394 | 2.80 | 365049 5.50 | 833805 1.90 | B | 14500 6.0 | 09/01/88 2138 |
| UNDERGROUND MINE | 1.50 | 39.30 | 59.00 | BELL | 1.70 | 83.60 | W215393 | 0.90 | 365053 6.10 | 833809 2.00 | B | 15080 4.5 | 09/01/88 2336 |
| UNDERGROUND MINE | 1.50 | 36.20 | 50.50 | HARLAN | 13.30 | 72.10 | W211639 | 2.60 | 365123 5.50 | 831239 1.60 | B | 12900 6.0 | 09/01/88 2489 |
| UNDERGROUND MINE | 1.80 | 33.70 | 51.00 | HARLAN | 15.30 | 71.00 | W211638 | 0.60 | 365125 6.70 | 831239 1.60 | B | 12490 2.0 | 09/01/88 2804 |
| SURFACE MINE | 9.10 | 34.70 | 59.70 | WAYNE | 5.60 | 78.60 | W214257 | 1.30 | 365125 8.60 | 844214 1.30 | B | 13380 2.0 | 09/01/88 2336 |
| ROAD CUT | 3.20 | 42.10 | 53.50 | KNOX | 4.40 | 79.80 | W213010 | 2.60 | 365158 6.00 | 835246 1.80 | B | 14340 4.0 | 09/01/88 2021 |
| SURFACE MINE | 2.20 | 39.80 | 56.80 | BELL | 3.40 | 81.30 | W214791 | 1.00 | 365210 6.80 | 833727 1.90 | B | 14520 4.5 | 09/01/88 2678 |
| PROSPECT | 4.00 | 40.50 | 57.00 | HARLAN | 2.50 | 80.10 | W214793 | 0.80 | 365229 9.50 | 830521 1.70 | B | 14080 2.0 | 09/01/88 2471 |
| UNDERGROUND MINE | 3.30 | 38.80 | 54.00 | BELL | 7.20 | 77.30 | W215438 | 1.10 | 365233 7.30 | 833745 1.90 | B | 13970 4.0 | 09/01/88 2570 |
| UNDERGROUND MINE | 2.00 | 36.20 | 55.60 | HARLAN | 8.20 | 77.20 | W215407 | 0.70 | 365238 7.30 | 831153 1.50 | B | 13790 4.0 | 09/01/88 2759 |

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Code Number | Sulfur | Latitude | Oxygen | Longitude | Rank | Hardgrove | Free Swell | Htg Val | Last Chg |
|------------------|----------|-----------|----------|----------|-------|--------|----------|-------------|--------|----------|--------|-----------|------|-----------|------------|---------|----------|
| SURFACE MINE | 1.80 | 38.20 | 55.00 | HARLAN | 6.80 | 77.30 | 5.30 | W215403 | 1.40 | 365243 | 7.70 | 832704 | B | | 13950 | 5.0 | 09/01/88 |
| | | | | | | | | | | | | 1.50 | | | 5.0 | | 2696 |
| SURFACE MINE | 3.50 | 36.60 | 55.50 | BELL | 7.90 | 76.90 | 5.10 | W215552 | 2.20 | 365247 | 6.20 | 833517 | B | | 13680 | 3.5 | 09/01/88 |
| | | | | | | | | | | | | 1.70 | | | | | 2201 |
| UNDERGROUND MINE | 1.70 | 35.50 | 54.50 | HARLAN | 10.00 | 75.70 | 4.90 | W215406 | 0.90 | 365248 | 6.90 | 831112 | B | | 13540 | 6.0 | 09/01/88 |
| | | | | | | | | | | | | 1.60 | | | | | 2804 |
| SURFACE MINE | 2.40 | 37.30 | 53.90 | BELL | 8.80 | 75.50 | 5.00 | W214788 | 1.60 | 365255 | 7.30 | 833801 | B | | 13420 | 5.5 | 09/01/88 |
| | | | | | | | | | | | | 1.80 | | | | | 2624 |
| MINE PORTAL | 2.00 | 38.90 | 54.00 | HARLAN | 7.10 | 77.30 | 5.40 | W215427 | 2.60 | 365305 | 5.90 | 831202 | B | | 13980 | 4.0 | 09/01/88 |
| | | | | | | | | | | | | 1.70 | | | | | 2084 |
| SURFACE MINE | 3.80 | 38.50 | 55.10 | MCCREARY | 6.40 | 76.00 | 5.20 | W208202 | 2.40 | 365308 | 8.10 | 842539 | B | | 13770 | 5.0 | 09/01/88 |
| | | | | | | | | | | | | 1.90 | | | | | 2084 |
| SURFACE MINE | 2.10 | 35.90 | 52.90 | BELL | 11.20 | 73.50 | 5.10 | W214789 | 0.70 | 365309 | 7.80 | 833750 | B | | 13140 | 5.0 | 09/01/88 |
| | | | | | | | | | | | | 1.70 | | | | | 2804 |
| UNDERGROUND MINE | 3.90 | 37.40 | 53.80 | HARLAN | 8.80 | 75.70 | 5.00 | W214792 | 0.90 | 365311 | 8.10 | 830502 | B | | 13340 | 3.0 | 09/01/88 |
| | | | | | | | | | | | | 1.50 | | | | | 2723 |
| UNDERGROUND MINE | 1.80 | 34.70 | 55.00 | HARLAN | 10.30 | 74.70 | 4.90 | W215426 | 0.70 | 365311 | 7.90 | 830526 | B | | 13490 | 4.0 | 09/01/88 |
| | | | | | | | | | | | | 1.50 | | | | | 2660 |
| SURFACE MINE | 2.40 | 38.90 | 57.60 | BELL | 3.50 | 80.60 | 5.50 | W214783 | 1.20 | 365311 | 7.40 | 833805 | B | | 14400 | 6.0 | 09/01/88 |
| | | | | | | | | | | | | 1.80 | | | | | 2138 |
| SURFACE MINE | 2.10 | 38.10 | 50.10 | BELL | 11.80 | 71.70 | 4.90 | W214782 | 3.60 | 365312 | 6.50 | 833802 | B | | 13000 | 4.0 | 09/01/88 |
| | | | | | | | | | | | | 1.50 | | | | | 2183 |
| SURFACE MINE | 3.20 | 35.90 | 56.80 | MCCREARY | 7.30 | 76.20 | 5.00 | W214781 | 1.60 | 365319 | 8.10 | 842423 | B | | 13570 | 5.0 | 09/01/88 |
| | | | | | | | | | | | | 1.80 | | | | | 2588 |
| UNDERGROUND MINE | 1.80 | 38.00 | 57.10 | HARLAN | 4.90 | 80.30 | 5.40 | W215405 | 1.10 | 365321 | 6.60 | 830554 | B | | 14320 | 6.0 | 09/01/88 |
| | | | | | | | | | | | | 1.70 | | | | | 2804 |
| ROAD CUT | 3.20 | 39.70 | 57.90 | KNOX | 2.40 | 82.00 | 5.40 | W212502 | 0.80 | 365333 | 7.60 | 835314 | B | | 14680 | 3.5 | 09/01/88 |
| | | | | | | | | | | | | 1.80 | | | | | 2318 |
| SURFACE MINE | 3.30 | 37.80 | 60.90 | KNOX | 1.30 | 83.30 | 5.50 | W213118 | 0.60 | 365344 | 7.40 | 840215 | B | | 14870 | 3.5 | 09/01/88 |
| | | | | | | | | | | | | 1.90 | | | | | 2417 |
| SURFACE MINE | 5.70 | 37.70 | 57.80 | BELL | 4.50 | 80.50 | 5.30 | W215550 | 0.90 | 365350 | 7.20 | 833336 | B | | 14400 | 5.0 | 09/01/88 |
| | | | | | | | | | | | | 1.60 | | | | | 2678 |

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------|----------|-----------|----------|--------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| SURFACE MINE | 4.10 | 35.80 | 53.20 | BELL | 11.00 | 73.30 | W215545 | 1.00 | 365354 | 833349 | B | 12990 | 09/01/88 |
| | | | | | | | 4.70 | | 8.50 | 1.50 | | 1.0 | 2804 |
| SURFACE MINE | 3.40 | 38.60 | 48.60 | BELL | 12.80 | 71.90 | W215551 | 2.30 | 365401 | 833347 | B | 12940 | 09/01/88 |
| | | | | | | | 5.10 | | 6.40 | 1.50 | | 5.0 | 2516 |
| SURFACE MINE | 5.20 | 37.40 | 60.40 | KNOX | 2.20 | 81.90 | W214773 | 0.60 | 365408 | 840333 | B | 14540 | 09/01/88 |
| | | | | | | | 5.30 | | 8.00 | 2.00 | | 3.5 | 2399 |
| SURFACE MINE | 3.10 | 37.80 | 60.50 | KNOX | 1.70 | 82.10 | W205329 | 0.80 | 365414 | 835227 | B | 14590 | 09/01/88 |
| | | | | | | | 5.30 | | 8.00 | 2.10 | | 4.0 | 2210 |
| SURFACE MINE | 3.60 | 38.70 | 52.60 | KNOX | 8.70 | 73.50 | W214778 | 5.00 | 365419 | 835518 | B | 13390 | 09/01/88 |
| | | | | | | | 4.80 | | 6.10 | 1.90 | | 4.0 | 2219 |
| SURFACE MINE | 3.30 | 39.80 | 55.20 | KNOX | 5.00 | 79.50 | W205331 | 0.90 | 365424 | 835226 | B | 14330 | 09/01/88 |
| | | | | | | | 5.80 | | 6.80 | 2.00 | | 4.5 | 2570 |
| SURFACE MINE | 2.80 | 35.00 | 49.20 | BELL | 15.80 | 69.60 | W215435 | 1.70 | 365438 | 833050 | B | 12430 | 09/01/88 |
| | | | | | | | 4.80 | | 6.60 | 1.50 | | 4.0 | 2759 |
| ROAD CUT | 3.10 | 40.50 | 47.00 | KNOX | 12.50 | 71.50 | W213009 | 3.60 | 365457 | 835522 | B | 12920 | 09/01/88 |
| | | | | | | | 5.00 | | 5.70 | 1.70 | | 4.0 | 2093 |
| SURFACE MINE | 2.60 | 38.60 | 48.50 | HARLAN | 12.90 | 70.60 | W215562 | 3.60 | 365521 | 832015 | B | 12860 | 09/01/88 |
| | | | | | | | 5.00 | | 6.60 | 1.30 | | 4.0 | 2219 |
| SURFACE MINE | 3.30 | 35.90 | 49.20 | HARLAN | 14.90 | 69.10 | W215560 | 3.10 | 365522 | 832012 | B | 12450 | 09/01/88 |
| | | | | | | | 4.70 | | 6.90 | 1.30 | | 4.0 | 2561 |
| SURFACE MINE | 2.30 | 41.90 | 49.80 | HARLAN | 8.30 | 74.70 | W215563 | 3.80 | 365522 | 832015 | B | 13620 | 09/01/88 |
| | | | | | | | 5.30 | | 6.50 | 1.40 | | 4.0 | 2084 |
| UNDERGROUND MINE | 2.10 | 39.20 | 53.40 | BELL | 7.40 | 77.10 | W215437 | 2.40 | 365530 | 833216 | B | 14090 | 09/01/88 |
| | | | | | | | 5.30 | | 6.00 | 1.80 | | 5.5 | 2219 |
| SURFACE MINE | 2.20 | 37.60 | 52.50 | KNOX | 9.90 | 74.80 | W214790 | 1.70 | 365549 | 833530 | B | 13330 | 09/01/88 |
| | | | | | | | 5.00 | | 7.00 | 1.60 | | 4.5 | 2507 |
| SURFACE MINE | 2.60 | 38.00 | 49.40 | LESLIE | 12.60 | 71.20 | W214262 | 3.10 | 365718 | 833001 | B | 12890 | 09/01/88 |
| | | | | | | | 4.90 | | 6.60 | 1.60 | | 5.5 | 2273 |
| SURFACE MINE | 4.40 | 35.60 | 53.60 | LESLIE | 10.80 | 74.10 | W213017 | 0.60 | 365759 | 831739 | B | 13110 | 09/01/88 |
| | | | | | | | 4.60 | | 8.40 | 1.50 | | 1.0 | 2759 |
| SURFACE MINE | 4.40 | 41.30 | 52.90 | LESLIE | 5.80 | 78.30 | W213018 | 1.10 | 365800 | 831741 | B | 13900 | 09/01/88 |
| | | | | | | | 5.30 | | 7.90 | 1.60 | | 2.0 | 2228 |

Coal Field Information Printout for: KY - Kentucky

| Location | | County | | | Code Number | | Latitude | | Longitude | | Rank | Htg Val | Last Chg |
|------------------|-----------|----------|-------|--------|-------------|--------|----------|----------|-----------|------------|----------|-----------|----------|
| Moisture | Volatiles | Fxd Crbn | Ash | Carbōn | Hydrogen | Sulfur | Oxygen | Nitrogen | Hardgrove | Free Swell | | Hemi Temp | |
| SURFACE MINE | 4.90 | 32.30 | 55.50 | LESLIE | W213117 | 0.50 | 365804 | 831713 | B | 12780 | 09/01/88 | | |
| | | | | | 4.60 | | 8.00 | 1.40 | | 1.0 | 2804 | | |
| SURFACE MINE | 3.20 | 35.20 | 42.90 | LESLIE | W213019 | 1.70 | 365804 | 831746 | B | 11290 | 09/01/88 | | |
| | | | | | 4.50 | | 7.30 | 1.40 | | 1.5 | 2678 | | |
| SURFACE MINE | 3.00 | 36.90 | 52.60 | LESLIE | W213116 | 1.80 | 365816 | 831745 | B | 13160 | 09/01/88 | | |
| | | | | | 5.00 | | 8.00 | 1.50 | | 3.5 | 2624 | | |
| SURFACE MINE | 3.40 | 38.20 | 46.30 | LESLIE | W213021 | 2.20 | 365817 | 831759 | B | 12180 | 09/01/88 | | |
| | | | | | 4.70 | | 8.10 | 1.30 | | 5.5 | 2498 | | |
| UNDERGROUND MINE | 2.40 | 37.40 | 51.70 | LESLIE | W213025 | 1.60 | 365846 | 831737 | B | 13190 | 09/01/88 | | |
| | | | | | 5.10 | | 6.60 | 1.90 | | 5.5 | 2750 | | |
| SURFACE MINE | 2.50 | 38.00 | 57.10 | LAUREL | W212091 | 1.50 | 365932 | 840309 | B | 14260 | 09/01/88 | | |
| | | | | | 5.30 | | 6.80 | 2.10 | | 5.0 | 2480 | | |
| DRILL CORE | 2.90 | 39.30 | 55.50 | KNOX | W213931 | 2.00 | 365958 | 835047 | B | 14120 | 09/01/88 | | |
| | | | | | 5.40 | | 6.80 | 2.00 | | 4.5 | 2129 | | |
| SURFACE MINE | 8.10 | 30.30 | 55.80 | LESLIE | W213125 | 0.40 | 370039 | 831618 | B | 11930 | 09/01/88 | | |
| | | | | | 4.20 | | 10.90 | 1.30 | | 0.5 | 2804 | | |
| SURFACE MINE | 1.70 | 37.40 | 54.00 | LAUREL | W215396 | 3.80 | 370044 | 840051 | B | 13880 | 09/01/88 | | |
| | | | | | 5.10 | | 5.10 | 1.60 | | 6.0 | 2084 | | |
| SURFACE MINE | 4.20 | 33.60 | 60.10 | LESLIE | W213123 | 0.50 | 370047 | 831557 | B | 13840 | 09/01/88 | | |
| | | | | | 5.00 | | 7.70 | 1.50 | | 1.5 | 2516 | | |
| UNDERGROUND MINE | 2.20 | 35.40 | 53.50 | CLAY | W213016 | 1.50 | 370053 | 833116 | B | 13170 | 09/01/88 | | |
| | | | | | 4.80 | | 7.30 | 1.60 | | 6.5 | 2696 | | |
| SURFACE MINE | 3.30 | 39.40 | 51.90 | LAUREL | W214777 | 1.70 | 370118 | 835807 | B | 13580 | 09/01/88 | | |
| | | | | | 5.10 | | 6.60 | 1.90 | | 4.0 | 2228 | | |
| | 1.20 | 39.00 | 54.70 | LESLIE | W189940 | 4.00 | 370142 | 832134 | B | 13970 | 09/01/88 | | |
| | | | | | 5.40 | | 6.40 | 0.90 | | 5.0 | 2174 | | |
| SURFACE MINE | 2.60 | 38.80 | 56.20 | CLAY | W213014 | 0.60 | 370153 | 833846 | B | 14300 | 09/01/88 | | |
| | | | | | 5.30 | | 6.80 | 1.70 | | 5.0 | 2804 | | |
| SURFACE MINE | 2.90 | 37.30 | 49.80 | CLAY | W213012 | 1.70 | 370154 | 833849 | B | 12870 | 09/01/88 | | |
| | | | | | 5.00 | | 6.70 | 1.60 | | 5.5 | 2372 | | |
| SURFACE MINE | 2.60 | 35.70 | 43.60 | CLAY | W213013 | 1.80 | 370156 | 833844 | B | 11650 | 09/01/88 | | |
| | | | | | 4.50 | | 6.60 | 1.40 | | 2.0 | 2687 | | |

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------|----------|-----------|----------|---------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| SURFACE MINE | 4.40 | 32.50 | 55.00 | CLAY | 12.50 | 73.40 | 4.80 | 0.90 | 370158 | 833902 | B | 13000 | 09/01/88 |
| | | | | | | | | | 6.90 | 1.50 | | 3.5 | 2804 |
| SURFACE MINE | 2.40 | 39.60 | 49.70 | CLAY | 10.70 | 74.30 | 5.00 | 1.30 | 370158 | 833904 | B | 13220 | 09/01/88 |
| | | | | | | | | | 6.90 | 1.80 | | 5.5 | 2804 |
| SURFACE MINE | 2.80 | 35.70 | 56.90 | CLAY | 7.40 | 78.50 | 5.10 | 0.70 | 370227 | 833557 | B | 13990 | 09/01/88 |
| | | | | | | | | | 6.70 | 1.60 | | 3.5 | 2804 |
| SURFACE MINE | 2.60 | 37.70 | 55.10 | CLAY | 7.20 | 77.30 | 5.20 | 1.00 | 370245 | 833649 | B | 13650 | 09/01/88 |
| | | | | | | | | | 7.50 | 1.80 | | 5.0 | 2804 |
| SURFACE MINE | 2.70 | 33.60 | 52.90 | LETCHER | 13.50 | 73.30 | 4.90 | 1.00 | 370327 | 824420 | B | 13120 | 09/01/88 |
| | | | | | | | | | 5.80 | 1.50 | | 7.0 | 2804 |
| SURFACE MINE | 2.30 | 33.10 | 51.50 | LETCHER | 15.40 | 71.30 | 4.80 | 1.40 | 370328 | 824420 | B | 12740 | 09/01/88 |
| | | | | | | | | | 5.60 | 1.50 | | 7.5 | 2759 |
| SURFACE MINE | 2.60 | 33.80 | 54.40 | LETCHER | 11.80 | 74.60 | 4.90 | 1.60 | 370330 | 824425 | B | 13350 | 09/01/88 |
| | | | | | | | | | 5.50 | 1.60 | | 7.5 | 2741 |
| UNDERGROUND MINE | 2.40 | 34.40 | 58.00 | LETCHER | 7.60 | 79.00 | 5.00 | 1.30 | 370331 | 824336 | B | 14090 | 09/01/88 |
| | | | | | | | | | 5.70 | 1.40 | | 7.5 | 2660 |
| | 1.90 | 35.00 | 48.90 | LESLIE | 16.10 | 68.30 | 5.00 | 1.10 | 370334 | 832017 | B | 12250 | 09/01/88 |
| | | | | | | | | | 8.30 | 1.20 | | 1.0 | 2759 |
| | 2.00 | 34.80 | 51.40 | LESLIE | 13.80 | 70.80 | 5.00 | 2.20 | 370335 | 832113 | B | 12610 | 09/01/88 |
| | | | | | | | | | 7.00 | 1.20 | | 1.5 | 2912 |
| UNDERGROUND MINE | 2.10 | 36.40 | 56.20 | PERRY | 7.40 | 78.30 | 5.20 | 0.80 | 370615 | 830623 | B | 13880 | 09/01/88 |
| | | | | | | | | | 6.50 | 1.80 | | 4.5 | 2759 |
| DRILL CORE | 2.70 | 37.20 | 56.10 | LESLIE | 6.70 | 77.90 | 5.30 | 0.60 | 370729 | 832043 | B | 13920 | 09/01/88 |
| | | | | | | | | | 7.90 | 1.60 | | 3.0 | 2804 |
| SURFACE MINE | 5.40 | 40.60 | 53.00 | LAUREL | 6.40 | 77.10 | 5.20 | 1.40 | 370734 | 841428 | B | 13780 | 09/01/88 |
| | | | | | | | | | 8.30 | 1.60 | | 4.0 | 2228 |
| SURFACE MINE | 4.30 | 39.20 | 56.20 | LAUREL | 4.60 | 79.10 | 5.50 | 1.50 | 370752 | 840901 | B | 14130 | 09/01/88 |
| | | | | | | | | | 7.10 | 2.20 | | 5.0 | 2237 |
| ROAD CUT | 3.00 | 38.60 | 53.90 | CLAY | 7.50 | 75.20 | 5.20 | 1.90 | 370821 | 834608 | B | 13750 | 09/01/88 |
| | | | | | | | | | 8.40 | 1.80 | | 2.5 | 2192 |
| SURFACE MINE | 3.80 | 34.70 | 51.70 | LESLIE | 13.60 | 71.30 | 4.70 | 1.30 | 370837 | 831548 | B | 12610 | 09/01/88 |
| | | | | | | | | | 7.70 | 1.40 | | 2.5 | 2768 |

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank Hardgrove | Htg Val Free Swell | Last Chg Hemi Temp |
|------------------|----------|-----------|----------|---------|-------|--------|----------|--------|--------------------|-----------------------|-------------------|-----------------------|-----------------------|
| SURFACE MINE | 3.60 | 41.00 | 57.20 | LAUREL | 1.80 | 81.40 | W212501 | 5.50 | 370841 | 841001 | B | 14480 | 09/01/88 |
| | | | | | | | | 1.20 | 8.00 | 2.10 | | 5.0 | 2273 |
| SURFACE MINE | 3.20 | 41.30 | 51.30 | LAUREL | 7.40 | 75.20 | W207471 | 5.30 | 370844 | 840120 | B | 13780 | 09/01/88 |
| | | | | | | | | 2.70 | 7.70 | 1.70 | | 4.0 | 2237 |
| SURFACE MINE | 2.80 | 41.40 | 49.70 | LAUREL | 8.90 | 73.40 | W212500 | 4.90 | 370845 | 840956 | B | 13360 | 09/01/88 |
| | | | | | | | | 4.00 | 7.10 | 1.70 | | 4.0 | 2120 |
| SURFACE MINE | 2.70 | 36.50 | 46.70 | PERRY | 16.80 | 66.60 | W207898 | 4.60 | 370853 | 830827 | B | 12180 | 09/01/88 |
| | | | | | | | | 5.50 | 5.20 | 1.30 | | 5.0 | 2147 |
| SURFACE MINE | 3.50 | 40.60 | 52.90 | LAUREL | 6.50 | 75.10 | W207469 | 5.40 | 370901 | 840117 | B | 13890 | 09/01/88 |
| | | | | | | | | 4.40 | 6.70 | 1.90 | | 4.0 | 2156 |
| ROAD CUT | 3.30 | 38.90 | 52.90 | PULASKI | 8.20 | 73.30 | W210347 | 5.00 | 370921 | 841908 | B | 13260 | 09/01/88 |
| | | | | | | | | 5.00 | 7.00 | 1.50 | | 2.5 | 2111 |
| SURFACE MINE | 2.20 | 36.10 | 54.20 | LETCHER | 9.70 | 74.80 | W209667 | 5.40 | 370923 | 825306 | B | 13480 | 09/01/88 |
| | | | | | | | | 0.70 | 7.80 | 1.60 | | 5.5 | 2804 |
| ROAD CUT | 3.20 | 39.20 | 53.50 | PULASKI | 7.30 | 74.00 | W210346 | 5.30 | 370935 | 842025 | B | 13570 | 09/01/88 |
| | | | | | | | | 2.40 | 9.20 | 1.80 | | 4.5 | 2048 |
| SURFACE MINE | 2.40 | 32.90 | 51.60 | LETCHER | 15.50 | 71.10 | W209674 | 4.70 | 371010 | 825735 | B | 12530 | 09/01/88 |
| | | | | | | | | 0.70 | 6.60 | 1.40 | | 1.5 | 2804 |
| SURFACE MINE | 2.40 | 32.60 | 57.70 | LETCHER | 9.70 | 75.20 | W209671 | 4.80 | 371015 | 825815 | B | 13320 | 09/01/88 |
| | | | | | | | | 1.00 | 7.80 | 1.50 | | 3.0 | 2741 |
| SURFACE MINE | 2.10 | 35.20 | 50.20 | LETCHER | 14.60 | 70.10 | W209673 | 5.00 | 371017 | 825815 | B | 12670 | 09/01/88 |
| | | | | | | | | 0.80 | 8.00 | 1.50 | | 4.0 | 2804 |
| PROSPECT PIT | 2.80 | 40.10 | 47.90 | CLAY | 12.00 | 71.90 | W205327 | 5.40 | 371026 | 834223 | B | 13060 | 09/01/88 |
| | | | | | | | | 3.00 | 5.80 | 1.90 | | 4.5 | 2318 |
| SURFACE MINE | 2.80 | 36.10 | 54.10 | CLAY | 9.80 | 75.40 | W214774 | 5.00 | 371039 | 835148 | B | 13460 | 09/01/88 |
| | | | | | | | | 0.70 | 7.30 | 1.80 | | 5.0 | 2804 |
| SURFACE MINE | 5.30 | 38.90 | 56.80 | LAUREL | 4.30 | 79.90 | W213941 | 5.30 | 371039 | 841156 | B | 14260 | 09/01/88 |
| | | | | | | | | 2.10 | 6.70 | 1.70 | | 3.5 | 2039 |
| SURFACE MINE | 2.50 | 36.50 | 56.80 | CLAY | 6.70 | 78.00 | W210294 | 5.30 | 371048 | 834709 | B | 13920 | 09/01/88 |
| | | | | | | | | 0.70 | 7.50 | 1.80 | | 4.5 | 2804 |
| UNDERGROUND MINE | 2.60 | 39.90 | 54.60 | LETCHER | 5.50 | 78.80 | W208196 | 5.40 | 371053 | 824747 | B | 14210 | 09/01/88 |
| | | | | | | | | 2.00 | 6.60 | 1.70 | | 5.0 | 2624 |

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Code Number | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------|----------|-----------|----------|---------|--------|----------|-------------|----------|-----------|------------|-----------|----------|
| | | | Ash | | | Sulfur | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp | |
| UNDERGROUND MINE | 3.30 | 39.80 | 50.30 | LAUREL | 70.90 | 5.10 | W207468 | 371109 | 840416 | B | 13240 | 09/01/88 |
| | | | | | | | | 8.00 | 1.70 | | 3.0 | 2057 |
| UNDERGROUND MINE | 2.20 | 40.20 | 46.60 | LESLIE | 70.80 | 5.00 | W213026 | 371137 | 832231 | B | 12780 | 09/01/88 |
| | | | | | | | | 6.30 | 1.50 | | 4.0 | 2462 |
| SURFACE MINE | 3.40 | 35.80 | 58.50 | CLAY | 79.10 | 5.10 | W205337 | 371146 | 834442 | B | 14200 | 09/01/88 |
| | | | | | | | | 7.70 | 1.90 | | 5.5 | 2804 |
| SURFACE MINE | 3.80 | 38.80 | 55.00 | LAUREL | 77.50 | 5.70 | W207464 | 371209 | 840216 | B | 13980 | 09/01/88 |
| | | | | | | | | 7.10 | 1.90 | | 3.5 | 2291 |
| SURFACE MINE | 5.80 | 36.20 | 59.00 | LAUREL | 76.30 | 4.70 | W207466 | 371210 | 840020 | B | 13710 | 09/01/88 |
| | | | | | | | | 11.60 | 1.90 | | 1.0 | 2237 |
| SURFACE MINE | 2.30 | 38.60 | 55.50 | LETCHER | 78.60 | 5.30 | W209668 | 371233 | 825053 | B | 14060 | 09/01/88 |
| | | | | | | | | 7.70 | 1.70 | | 5.0 | 2804 |
| SURFACE MINE | 10.60 | 36.80 | 59.30 | LAUREL | 73.00 | 4.60 | W207465 | 371234 | 840254 | B | 12610 | 09/01/88 |
| | | | | | | | | 15.90 | 1.90 | | 0.0 | 2336 |
| SURFACE MINE | 3.10 | 36.30 | 54.20 | LETCHER | 74.60 | 5.10 | W209669 | 371235 | 824726 | B | 13380 | 09/01/88 |
| | | | | | | | | 8.20 | 1.80 | | 4.5 | 2804 |
| SURFACE MINE | 3.90 | 38.30 | 58.20 | LAUREL | 76.70 | 5.40 | W207463 | 371244 | 840154 | B | 14430 | 09/01/88 |
| | | | | | | | | 11.60 | 2.00 | | 5.0 | 2363 |
| SURFACE MINE | 2.20 | 38.70 | 53.10 | PERRY | 75.80 | 5.10 | W212592 | 371257 | 831538 | B | 13610 | 09/01/88 |
| | | | | | | | | 8.10 | 1.60 | | 3.0 | 2570 |
| UNDERGROUND MINE | 2.00 | 32.70 | 47.60 | LETCHER | 66.40 | 4.50 | W210261 | 371310 | 824617 | B | 11630 | 09/01/88 |
| | | | | | | | | 7.30 | 1.40 | | 3.5 | 2804 |
| SURFACE MINE | 5.20 | 40.10 | 55.30 | CLAY | 79.40 | 5.40 | W214260 | 371312 | 835557 | B | 14270 | 09/01/88 |
| | | | | | | | | 7.70 | 2.10 | | 3.5 | 2804 |
| SURFACE MINE | 4.20 | 37.40 | 57.50 | LAUREL | 78.00 | 5.40 | W207467 | 371318 | 840456 | B | 14060 | 09/01/88 |
| | | | | | | | | 7.60 | 1.90 | | 5.5 | 2318 |
| UNDERGROUND MINE | 2.30 | 35.90 | 56.70 | PERRY | 77.00 | 4.90 | W212593 | 371321 | 831607 | B | 13670 | 09/01/88 |
| | | | | | | | | 8.00 | 1.70 | | 2.0 | 2804 |
| UNDERGROUND MINE | 4.10 | 38.90 | 56.80 | CLAY | 80.50 | 5.20 | W205338 | 371330 | 834332 | B | 14570 | 09/01/88 |
| | | | | | | | | 7.40 | 2.00 | | 5.5 | 2804 |
| SURFACE MINE | 3.80 | 37.20 | 55.00 | PERRY | 76.60 | 5.30 | W207447 | 371331 | 831126 | B | 13630 | 09/01/88 |
| | | | | | | | | 8.00 | 1.60 | | 2.0 | 2777 |

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------|----------|-----------|----------|---------|-------|--------|-----------------|--------|-----------------|----------------|------|--------------|------------------|
| ROAD CUT | 9.70 | 33.20 | 48.50 | PERRY | 18.30 | 62.70 | W207456 4.20 | 1.00 | 371337 12.40 | 831114 1.40 | B | 10790 0.0 | 09/01/88 2102 |
| ROAD CUT | 4.90 | 36.50 | 51.90 | LAUREL | 11.60 | 71.70 | W207462 5.10 | 1.20 | 371344 8.80 | 841247 1.60 | B | 12970 1.5 | 09/01/88 2804 |
| SURFACE MINE | 3.80 | 34.80 | 51.00 | PERRY | 14.20 | 70.00 | W212591 4.50 | 0.60 | 371355 9.30 | 831721 1.40 | B | 12290 1.0 | 09/01/88 2804 |
| ROAD CUT | 2.70 | 38.20 | 43.90 | PERRY | 17.90 | 65.60 | W207455 4.90 | 3.70 | 371359 6.60 | 831058 1.30 | B | 12020 5.0 | 09/01/88 2120 |
| SURFACE MINE | 3.70 | 31.30 | 56.90 | PERRY | 11.80 | 74.70 | W207815 4.60 | 0.60 | 371413 7.00 | 831117 1.30 | B | 12970 1.0 | 09/01/88 2804 |
| ROAD CUT | 3.10 | 34.30 | 51.50 | PERRY | 14.20 | 70.70 | W207454 4.70 | 0.50 | 371431 8.40 | 831104 1.50 | B | 12690 3.0 | 09/01/88 2804 |
| UNDERGROUND MINE | 2.30 | 36.60 | 60.00 | PIKE | 3.40 | 81.90 | W209851 5.40 | 0.60 | 371512 7.20 | 823104 1.50 | B | 14730 6.0 | 09/01/88 2471 |
| ROAD CUT | 2.70 | 37.70 | 54.90 | PERRY | 7.40 | 76.80 | W210313 5.20 | 0.90 | 371541 8.10 | 831206 1.60 | B | 13710 3.5 | 09/01/88 2804 |
| UNDERGROUND MINE | 1.90 | 30.30 | 52.70 | PIKE | 17.00 | 69.30 | W210154 4.60 | 0.70 | 371618 7.00 | 823405 1.40 | B | 12210 3.0 | 09/01/88 2804 |
| UNDERGROUND MINE | 1.80 | 33.60 | 49.60 | PIKE | 16.80 | 69.00 | W212595 4.70 | 1.00 | 371642 7.00 | 823031 1.50 | B | 12460 5.5 | 09/01/88 2750 |
| ROAD CUT | 3.30 | 36.10 | 54.50 | PERRY | 9.40 | 75.40 | W211619 4.90 | 0.60 | 371708 8.10 | 831136 1.60 | B | 13370 1.5 | 09/01/88 2804 |
| UNDERGROUND MINE | 1.70 | 34.70 | 51.40 | PIKE | 13.90 | 72.60 | W212594 4.90 | 0.80 | 371714 6.30 | 823147 1.50 | B | 12940 4.0 | 09/01/88 2804 |
| SURFACE MINE | 4.30 | 40.30 | 56.30 | JACKSON | 3.40 | 81.10 | W213933 5.50 | 0.90 | 371718 7.30 | 840416 1.80 | B | 14560 5.0 | 09/01/88 2507 |
| ROAD CUT | 2.10 | 34.60 | 63.30 | PIKE | 2.10 | 83.30 | W210161 5.40 | 0.70 | 371725 6.90 | 823302 1.60 | B | 14800 5.0 | 09/01/88 2561 |
| ROAD CUT | 1.80 | 36.70 | 58.00 | PIKE | 5.30 | 80.20 | W210162 5.40 | 0.90 | 371727 6.70 | 823303 1.50 | B | 14330 7.0 | 09/01/88 2804 |
| ROAD CUT | 2.00 | 34.10 | 60.40 | PIKE | 5.50 | 80.10 | W210163 5.10 | 0.80 | 371732 7.10 | 823306 1.40 | B | 14110 5.0 | 09/01/88 2804 |

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Code Number | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------------|----------|-----------|----------|--------|-------|--------|----------|-------------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| UNDERGROUND MINE | 1.90 | 33.60 | 53.20 | FLOYD | 13.20 | 71.40 | 4.90 | W215402 | 0.70 | 371733 | 824216 | B | 12930 | 09/01/88 |
| | | | | | | | | | | 8.20 | 1.60 | | 4.0 | 2741 |
| PROSPECT PIT | 4.10 | 33.70 | 46.80 | OWSLEY | 19.50 | 65.30 | 4.80 | W205328 | 1.90 | 371735 | 833309 | B | 11660 | 09/01/88 |
| | | | | | | | | | | 7.00 | 1.50 | | 2.0 | 2804 |
| SURFACE MINE | 1.50 | 36.10 | 58.60 | PIKE | 5.30 | 80.10 | 5.10 | W212068 | 0.90 | 371739 | 822513 | B | 14310 | 09/01/88 |
| | | | | | | | | | | 7.00 | 1.60 | | 7.0 | 2804 |
| SURFACE MINE | 1.70 | 32.20 | 55.10 | PIKE | | 74.40 | 4.60 | W212069 | 0.80 | 371740 | 822519 | B | 13100 | 09/01/88 |
| | | | | | | | | | | 6.10 | 1.40 | | 7.5 | 2804 |
| DRILL CORE, HOLE NO 30 | 1.80 | 42.60 | 43.90 | PERRY | 13.50 | 70.30 | 5.30 | W213934 | 2.80 | 371742 | 831218 | B | 12830 | 09/01/88 |
| | | | | | | | | | | 6.50 | 1.60 | | 4.0 | 2651 |
| SURFACE MINE | 6.70 | 35.90 | 61.70 | LAUREL | 2.40 | 82.40 | 5.10 | W213942 | 0.70 | 371747 | 840702 | B | 14640 | 09/01/88 |
| | | | | | | | | | | 7.60 | 1.80 | | 3.0 | 2651 |
| UNDERGROUND MINE | 1.80 | 30.00 | 59.40 | PIKE | 10.60 | 76.20 | 4.70 | W212281 | 0.40 | 371759 | 822548 | B | 13480 | 09/01/88 |
| | | | | | | | | | | 6.70 | 1.40 | | 3.5 | 2660 |
| ROAD CUT | 3.10 | 35.70 | 55.30 | PERRY | 9.00 | 76.10 | 5.00 | W208431 | 0.60 | 371808 | 831133 | B | 13460 | 09/01/88 |
| | | | | | | | | | | 7.60 | 1.70 | | 3.0 | 2804 |
| UNDERGROUND MINE | 4.60 | 37.10 | 54.70 | PERRY | 8.20 | 76.30 | 5.10 | W205339 | 0.80 | 371813 | 831228 | B | 13570 | 09/01/88 |
| | | | | | | | | | | 7.80 | 1.80 | | 3.0 | 2804 |
| UNDERGROUND MINE | 1.50 | 34.10 | 59.80 | PIKE | 6.10 | 80.40 | 5.10 | W212282 | 0.70 | 371815 | 822535 | B | 14250 | 09/01/88 |
| | | | | | | | | | | 6.30 | 1.40 | | 7.5 | 2804 |
| UNDERGROUND MINE | 1.20 | 27.90 | 49.00 | PIKE | 23.10 | 64.20 | 4.20 | W208061 | 2.50 | 371842 | 821842 | B | 11720 | 09/01/88 |
| | | | | | | | | | | 4.70 | 1.30 | | 5.0 | 2606 |
| DRILL CORE, HOLE NO 30 | 1.40 | 43.60 | 52.10 | PERRY | 4.30 | 79.00 | 5.60 | W214258 | 2.70 | 371842 | 831218 | B | 14280 | 09/01/88 |
| | | | | | | | | | | 6.90 | 1.50 | | 3.5 | 2039 |
| SURFACE MINE | 2.90 | 37.60 | 51.50 | KNOTT | 10.90 | 73.30 | 4.90 | W205330 | 1.50 | 371846 | 830113 | B | 13150 | 09/01/88 |
| | | | | | | | | | | 7.80 | 1.60 | | 3.5 | 2552 |
| SURFACE MINE | 6.10 | 37.70 | 55.40 | PERRY | 6.90 | 76.80 | 5.30 | W205323 | 0.70 | 371851 | 831623 | B | 13630 | 09/01/88 |
| | | | | | | | | | | 8.60 | 1.70 | | 3.0 | 2804 |
| UNDERGROUND MINE | 1.50 | 26.20 | 48.10 | PIKE | 25.70 | 63.60 | 4.10 | W208062 | 0.70 | 371859 | 821805 | B | 11370 | 09/01/88 |
| | | | | | | | | | | 4.50 | 1.40 | | 6.0 | 2804 |
| ROAD CUT | 3.60 | 34.30 | 48.40 | PERRY | 17.30 | 65.50 | 4.60 | W208063 | 3.60 | 371911 | 831004 | B | 12030 | 09/01/88 |
| | | | | | | | | | | 7.40 | 1.60 | | 4.5 | 2408 |

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank | Htg Val Free Swell | Last Chg Hemi Temp |
|------------------------|----------|-----------|----------|---------|--------|----------|--------|--------------------|-----------------------|------|-----------------------|-----------------------|
| SURFACE MINE | | | | KNOTT | | W205326 | | 371920 | 830304 | B | 13110 | 09/01/88 |
| | 4.40 | 36.90 | 52.20 | 10.90 | 73.30 | 5.20 | 0.60 | 8.30 | 1.70 | | 2.5 | 2804 |
| | | | | | | | | | | | | |
| ROAD CUT | | | | PERRY | | W208085 | | 371927 | 830939 | B | 13380 | 09/01/88 |
| | 5.10 | 35.60 | 55.20 | 9.20 | 74.60 | 5.10 | 0.60 | 8.80 | 1.70 | | 2.0 | 2804 |
| | | | | | | | | | | | | |
| ROAD CUT | | | | PERRY | | W208060 | | 371953 | 830937 | B | 13120 | 09/01/88 |
| | 4.00 | 36.50 | 53.30 | 10.20 | 74.00 | 5.00 | 0.70 | 8.40 | 1.70 | | 1.5 | 2804 |
| | | | | | | | | | | | | |
| ROAD CUT | | | | PERRY | | W200059 | | 372008 | 830917 | B | 14000 | 09/01/88 |
| | 3.30 | 45.10 | 48.70 | 6.20 | 77.00 | 5.60 | 2.00 | 7.60 | 1.60 | | 4.5 | 2102 |
| | | | | | | | | | | | | |
| UNDERGROUND MINE | | | | PERRY | | W205320 | | 372020 | 832313 | B | 12870 | 09/01/88 |
| | 6.00 | 38.10 | 52.20 | 9.70 | 73.90 | 5.10 | 0.50 | 8.90 | 1.90 | | 1.0 | 2651 |
| | | | | | | | | | | | | |
| ROAD CUT | | | | KNOTT | | W208432 | | 372028 | 825902 | B | 12510 | 09/01/88 |
| | 2.10 | 33.70 | 50.50 | 15.80 | 69.60 | 4.80 | 1.20 | 7.20 | 1.40 | | 4.5 | 2804 |
| | | | | | | | | | | | | |
| ROAD CUT | | | | KNOTT | | W208430 | | 372037 | 825905 | B | 13860 | 09/01/88 |
| | 2.00 | 40.20 | 51.90 | 7.90 | 76.80 | 5.50 | 0.60 | 7.50 | 1.70 | | 5.5 | 2804 |
| | | | | | | | | | | | | |
| UNDERGROUND MINE | | | | KNOTT | | W210266 | | 372044 | 824708 | B | 13480 | 09/01/88 |
| | 1.80 | 37.80 | 51.60 | 10.60 | 75.30 | 5.30 | 0.70 | 6.70 | 1.40 | | 4.0 | 2714 |
| | | | | | | | | | | | | |
| SURFACE MINE | | | | PERRY | | W205322 | | 372051 | 830856 | B | 11680 | 09/01/88 |
| | 4.00 | 33.70 | 46.60 | 19.70 | 66.00 | 4.60 | 0.60 | 7.50 | 1.60 | | 1.0 | 2804 |
| | | | | | | | | | | | | |
| PORTAL | | | | FLOYD | | W210319 | | 372052 | 824302 | B | 13190 | 09/01/88 |
| | 3.40 | 34.40 | 56.10 | 9.50 | 75.10 | 4.90 | 0.80 | 8.20 | 1.50 | | 1.5 | 2651 |
| | | | | | | | | | | | | |
| UNDERGROUND MINE | | | | PIKE | | W209852 | | 372104 | 823221 | B | 14320 | 09/01/88 |
| | 2.20 | 37.90 | 56.10 | 6.00 | 79.50 | 5.40 | 0.70 | 6.90 | 1.50 | | 6.5 | 2597 |
| | | | | | | | | | | | | |
| SURFACE MINE | | | | JACKSON | | W213932 | | 372106 | 835535 | B | 14570 | 09/01/88 |
| | 4.70 | 38.00 | 59.80 | 2.20 | 82.10 | 5.40 | 0.80 | 7.70 | 1.80 | | 4.0 | 2264 |
| | | | | | | | | | | | | |
| DRILL CORE, HOLE NO 40 | | | | PERRY | | W214785 | | 372107 | 832022 | B | 13960 | 09/01/88 |
| | 2.10 | 43.90 | 50.10 | 6.00 | 77.00 | 5.50 | 3.00 | 6.70 | 1.80 | | 4.0 | 2102 |
| | | | | | | | | | | | | |
| SURFACE MINE | | | | PERRY | | W207986 | | 372128 | 831733 | B | 12740 | 09/01/88 |
| | 5.30 | 33.90 | 52.80 | 13.30 | 71.30 | 4.70 | 0.70 | 8.50 | 1.50 | | 1.5 | 2804 |
| | | | | | | | | | | | | |
| SURFACE MINE | | | | PERRY | | W207987 | | 372128 | 831739 | B | 12810 | 09/01/88 |
| | 6.20 | 36.00 | 52.90 | 11.10 | 72.10 | 4.80 | 0.70 | 9.70 | 1.60 | | 1.0 | 2372 |
| | | | | | | | | | | | | |
| ROAD CUT | | | | KNOTT | | W208428 | | 372129 | 825901 | B | 11820 | 09/01/88 |
| | 1.80 | 35.40 | 45.00 | 19.60 | 66.10 | 4.60 | 1.00 | 7.30 | 1.40 | | 3.5 | 2804 |
| | | | | | | | | | | | | |

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------------|----------|-----------|----------|-----------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | Ash | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| ROAD CUT | | | | KNOTT | | W208095 | | 372131 | 825857 | B | 12700 | 09/01/88 |
| 3.20 | 37.50 | 48.80 | 13.70 | 71.10 | 5.10 | 1.40 | 7.00 | 1.70 | 4.5 | 2642 | | |
| ROAD CUT | | | | KNOTT | | W208206 | | 372131 | 830145 | B | 10490 | 09/01/88 |
| 2.40 | 33.20 | 39.20 | 27.60 | 57.40 | 4.30 | 3.50 | 5.90 | 1.30 | 4.0 | 2651 | | |
| ROAD CUT | | | | KNOTT | | W208429 | | 372138 | 825929 | B | 13250 | 09/01/88 |
| 3.00 | 36.70 | 52.70 | 10.60 | 73.90 | 5.00 | 1.90 | 7.10 | 1.50 | 5.5 | 2516 | | |
| SURFACE MINE | | | | PERRY | | W207991 | | 372143 | 831721 | B | 11530 | 09/01/88 |
| 6.00 | 33.20 | 47.30 | 19.50 | 64.90 | 4.50 | 0.60 | 9.10 | 1.40 | 1.0 | 2804 | | |
| SURFACE MINE | | | | PERRY | | W207989 | | 372143 | 831724 | B | 14280 | 09/01/88 |
| 5.30 | 39.00 | 58.10 | 2.90 | 79.80 | 5.40 | 1.10 | 9.00 | 1.80 | 4.0 | 2282 | | |
| SURFACE MINE | | | | OWSLEY | | W205324 | | 372146 | 834415 | B | 13610 | 09/01/88 |
| 4.30 | 37.40 | 55.40 | 7.20 | 76.50 | 5.50 | 0.80 | 8.10 | 1.90 | 3.5 | 2804 | | |
| ROAD CUT | | | | KNOTT | | W208096 | | 372153 | 825830 | B | 12050 | 09/01/88 |
| 2.70 | 40.00 | 42.20 | 17.80 | 65.90 | 4.90 | 3.30 | 6.60 | 1.50 | 4.5 | 2291 | | |
| ROAD CUT | | | | KNOTT | | W208066 | | 372158 | 830624 | B | 9980 | 09/01/88 |
| 2.20 | 30.70 | 38.60 | 30.70 | 55.00 | 4.00 | 3.40 | 5.80 | 1.10 | 4.5 | 2723 | | |
| SURFACE MINE | | | | BREATHITT | | W205321 | | 372201 | 832908 | B | 14130 | 09/01/88 |
| 4.40 | 39.60 | 56.70 | 3.70 | 79.80 | 5.70 | 0.70 | 8.10 | 2.00 | 4.5 | 2804 | | |
| ROAD CUT | | | | KNOTT | | W208205 | | 372213 | 830354 | B | 10610 | 09/01/88 |
| 1.90 | 31.70 | 41.40 | 26.90 | 59.40 | 4.20 | 1.90 | 6.30 | 1.30 | 4.0 | 2777 | | |
| ROAD CUT | | | | KNOTT | | W208098 | | 372219 | 825818 | B | 8490 | 09/01/88 |
| 1.60 | 27.20 | 33.00 | 39.80 | 47.50 | 3.50 | 3.00 | 5.30 | 0.90 | 1.0 | 2732 | | |
| UNDERGROUND MINE | | | | FLOYD | | W210317 | | 372245 | 823948 | B | 13370 | 09/01/88 |
| 2.20 | 34.10 | 56.10 | 9.80 | 75.80 | 4.90 | 0.60 | 7.50 | 1.40 | 4.5 | 2804 | | |
| ROAD CUT | | | | PIKE | | W210164 | | 372309 | 823325 | B | 13660 | 09/01/88 |
| 1.90 | 36.60 | 54.20 | 9.20 | 76.10 | 5.30 | 1.70 | 5.90 | 1.80 | 7.0 | 2309 | | |
| UNDERGROUND MINE | | | | KNOTT | | W210265 | | 372328 | 824559 | B | 13740 | 09/01/88 |
| 2.70 | 35.70 | 56.90 | 7.40 | 77.80 | 5.20 | 0.90 | 7.30 | 1.40 | 3.5 | 2552 | | |
| SURFACE MINE | | | | JACKSON | | W207869 | | 372334 | 835705 | B | 14660 | 09/01/88 |
| 6.00 | 38.80 | 58.90 | 2.30 | 81.30 | 5.50 | 0.60 | 8.50 | 1.80 | 3.5 | 2444 | | |
| DRILL CORE, HOLE NO 50 | | | | KNOTT | | W215672 | | 372344 | 830650 | B | 11970 | 09/01/88 |
| 2.90 | 34.90 | 46.40 | 18.70 | 67.20 | 4.60 | 1.10 | 6.80 | 1.60 | 3.5 | 2804 | | |

Coal Field Information Printout for: KY - Kentucky

| Location | | County | | | Code Number | | Latitude | | Longitude | | Htg Val | | Last Chg | |
|------------------|-----------|----------|-------|------------|-------------|--------|----------|----------|-----------|------|------------|-----------|----------|--|
| Moisture | Volatiles | Fxd Crbn | Ash | Carbon | Hydrogen | Sulfur | Oxygen | Nitrogen | Hardgrove | Rank | Free Swell | Hemi Temp | | |
| SURFACE MINE | 2.00 | 38.50 | 48.60 | PERRY | W211684 | 4.90 | 2.40 | 372349 | 830934 | B | 12640 | 09/01/88 | 2777 | |
| | | | | | | | | | | | | | | |
| UNDERGROUND MINE | 2.20 | 37.90 | 53.50 | FLOYD | W211630 | 5.10 | 3.30 | 372435 | 824340 | B | 13460 | 09/01/88 | 2300 | |
| | | | | | | | | | | | | | | |
| SURFACE MINE | 2.70 | 34.30 | 51.00 | KNOTT | W211621 | 4.60 | 0.80 | 372440 | 830620 | B | 12440 | 09/01/88 | 2804 | |
| | | | | | | | | | | | | | | |
| SURFACE MINE | 10.50 | 36.20 | 56.80 | ROCKCASTLE | W214259 | 4.80 | 0.50 | 372443 | 841233 | B | 13170 | 09/01/88 | 2759 | |
| | | | | | | | | | | | | | | |
| SURFACE MINE | 2.50 | 36.30 | 52.30 | OWSLEY | W212759 | 5.00 | 2.00 | 372452 | 833646 | B | 13020 | 09/01/88 | 2732 | |
| | | | | | | | | | | | | | | |
| SURFACE MINE | 2.30 | 41.20 | 52.80 | OWSLEY | W212758 | 5.30 | 3.30 | 372454 | 833636 | B | 14030 | 09/01/88 | 2183 | |
| | | | | | | | | | | | | | | |
| SURFACE MINE | 1.80 | 38.20 | 57.70 | PIKE | W211693 | 5.4 | 0.50 | 372455 | 823210 | B | 14460 | 09/01/88 | 2552 | |
| | | | | | | | | | | | | | | |
| SURFACE MINE | 1.90 | 38.70 | 51.70 | OWSLEY | W212760 | 5.10 | 2.50 | 372455 | 833642 | B | 13430 | 09/01/88 | 2183 | |
| | | | | | | | | | | | | | | |
| PROSPECT | 4.80 | 39.30 | 55.40 | BREATHITT | W190664 | 5.60 | 1.30 | 372458 | 833152 | B | 14030 | 09/01/88 | 2516 | |
| | | | | | | | | | | | | | | |
| PROSPECT | 2.20 | 40.50 | 53.80 | BREATHITT | W189755 | 5.60 | 3.20 | 372512 | 833646 | B | 14070 | 09/01/88 | 2066 | |
| | | | | | | | | | | | | | | |
| ROAD CUT | 3.10 | 30.70 | 38.80 | KNOTT | W208099 | 4.10 | 0.80 | 372523 | 825558 | B | 9900 | 09/01/88 | 2804 | |
| | | | | | | | | | | | | | | |
| SURFACE MINE | 2.00 | 41.30 | 50.90 | PIKE | W212088 | 5.30 | 2.60 | 372638 | 823432 | B | 13800 | 09/01/88 | 2183 | |
| | | | | | | | | | | | | | | |
| ROAD CUT | 3.00 | 33.30 | 41.50 | KNOTT | W208102 | 4.30 | 1.40 | 372656 | 825414 | B | 10900 | 09/01/88 | 2669 | |
| | | | | | | | | | | | | | | |
| PROSPECT | 1.80 | 37.00 | 50.10 | BREATHITT | W209506 | 4.90 | 3.20 | 372704 | 833258 | B | 12830 | 09/01/88 | 2048 | |
| | | | | | | | | | | | | | | |
| ROAD CUT | 3.80 | 34.30 | 50.10 | KNOTT | W209503 | 4.70 | 0.70 | 372706 | 825356 | B | 11890 | 09/01/88 | 2804 | |
| | | | | | | | | | | | | | | |

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank Hardgrove | Htg Val Free Swell | Last Chg Hemi Temp |
|--------------|----------|-----------|----------|-----------|--------|----------|--------|--------------------|-----------------------|-------------------|-----------------------|-----------------------|
| ROAD CUT | 2.40 | 38.70 | 49.00 | KNOTT | 71.30 | W209501 | 3.20 | 372707 | 825356 | B | 12880 | 09/01/88 |
| | | | | | | 5.20 | | 6.20 | 1.80 | | 4.5 | 2192 |
| SURFACE MINE | 2.20 | 32.20 | 44.90 | PIKE | 53.30 | W210158 | 1.10 | 372711 | 822907 | B | 11370 | 09/01/88 |
| | | | | | | 4.50 | | 6.80 | 1.40 | | 2.0 | 2597 |
| SURFACE MINE | 2.00 | 38.70 | 57.90 | PIKE | 81.10 | W210157 | 1.30 | 372712 | 822906 | B | 14470 | 09/01/88 |
| | | | | | | 5.40 | | 7.10 | 1.70 | | 5.0 | 2237 |
| SURFACE MINE | 1.60 | 42.60 | 48.30 | PIKE | 73.20 | W210156 | 5.20 | 372715 | 822906 | B | 13550 | 09/01/88 |
| | | | | | | 5.40 | | 5.60 | 1.50 | | 3.0 | 2093 |
| SURFACE MINE | 2.20 | 37.50 | 58.20 | PIKE | 80.50 | W210155 | 0.80 | 372721 | 822848 | B | 14380 | 09/01/88 |
| | | | | | | 5.40 | | 7.30 | 1.70 | | 5.0 | 2804 |
| SURFACE MINE | 3.30 | 35.70 | 58.30 | FLOYD | 78.50 | W211692 | 0.60 | 372722 | 823522 | B | 13730 | 09/01/88 |
| | | | | | | 4.90 | | 8.30 | 1.70 | | 1.5 | 2804 |
| SURFACE MINE | 2.60 | 42.00 | 48.40 | BREATHITT | 74.60 | W211610 | 0.80 | 372750 | 831113 | B | 13510 | 09/01/88 |
| | | | | | | 5.50 | | 7.80 | 1.70 | | 1.5 | 2804 |
| | 2.30 | 36.30 | 49.60 | OWSLEY | 70.30 | W189756 | 1.40 | 372758 | 833252 | B | 12520 | 09/01/88 |
| | | | | | | 5.10 | | 7.80 | 1.30 | | 3.0 | 2912 |
| SURFACE MINE | 3.00 | 38.00 | 56.80 | OWSLEY | 78.10 | W209507 | 1.80 | 372807 | 833906 | B | 14140 | 09/01/88 |
| | | | | | | 5.30 | | 7.30 | 2.30 | | 4.0 | 2842 |
| ROAD CUT | 4.20 | 38.60 | 56.50 | FLOYD | 79.10 | W208101 | 0.70 | 372813 | 825105 | B | 14170 | 09/01/88 |
| | | | | | | 5.40 | | 8.10 | 1.80 | | 5.0 | 2381 |
| SURFACE MINE | 2.70 | 34.60 | 57.90 | PIKE | 77.50 | W212063 | 1.10 | 372821 | 820703 | B | 13590 | 09/01/88 |
| | | | | | | 4.90 | | 7.40 | 1.60 | | 2.5 | 2444 |
| ROAD CUT | 2.50 | 42.40 | 48.20 | FLOYD | 75.20 | W208100 | 0.70 | 372825 | 825058 | B | 13680 | 09/01/88 |
| | | | | | | 5.50 | | 7.60 | 1.60 | | 1.5 | 2777 |
| SURFACE MINE | 5.70 | 39.40 | 56.20 | PIKE | 78.70 | W212065 | 0.60 | 372832 | 820702 | B | 13570 | 09/01/88 |
| | | | | | | 4.80 | | 10.00 | 1.50 | | 2.0 | 2246 |
| SURFACE MINE | 1.50 | 31.60 | 53.50 | PIKE | 72.40 | W212066 | 1.00 | 372838 | 820716 | B | 12840 | 09/01/88 |
| | | | | | | 4.50 | | 5.80 | 1.40 | | 6.0 | 2804 |
| ROAD CUT | 2.10 | 42.20 | 52.10 | FLOYD | 76.80 | W209504 | 3.60 | 372851 | 825011 | B | 14060 | 09/01/88 |
| | | | | | | 5.50 | | 6.70 | 1.70 | | 3.5 | 1994 |
| SURFACE MINE | 3.20 | 37.20 | 57.80 | KNOTT | 78.50 | W210259 | 0.60 | 372855 | 830245 | B | 13750 | 09/01/88 |
| | | | | | | 4.80 | | 9.60 | 1.50 | | 1.5 | 2804 |

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Code Number | Latitude Oxygen | Longitude Nitrogen | Rank | Htg Val Free Swell | Last Chg Hemi Temp |
|---------------------|----------|-----------|----------|-----------|-------|--------|----------|--------|-------------|--------------------|-----------------------|------|-----------------------|-----------------------|
| SURFACE MINE | 3.50 | 39.70 | 55.80 | JACKSON | 4.50 | 76.90 | 5.30 | 2.40 | W210255 | 372901 | 835338 | B | 13930 | 09/01/88 |
| UNDERGROUND MINE | 1.60 | 34.50 | 55.20 | PIKE | 10.30 | 75.90 | 5.10 | 0.70 | W208208 | 372903 | 822207 | B | 13490 | 09/01/88 |
| SURFACE MINE | 2.00 | 34.00 | 58.80 | PIKE | 7.20 | 80.40 | 5.00 | 0.70 | W212059 | 372904 | 820435 | B | 14210 | 09/01/88 |
| SURFACE MINE | 1.30 | 35.50 | 60.70 | PIKE | 3.80 | 82.80 | 5.10 | 0.60 | W212060 | 372904 | 820543 | B | 14740 | 09/01/88 |
| SURFACE MINE | 1.40 | 34.70 | 59.20 | PIKE | 6.10 | 80.60 | 5.20 | 0.60 | W212061 | 372905 | 820527 | B | 14350 | 09/01/88 |
| ROAD CUT | 3.10 | 34.30 | 46.40 | FLOYD | 19.30 | 65.60 | 4.60 | 1.00 | W208197 | 372915 | 824922 | B | 11650 | 09/01/88 |
| ROAD CUT | 3.30 | 40.00 | 49.20 | FLOYD | 10.80 | 72.10 | 5.20 | 1.10 | W208104 | 372920 | 824922 | B | 13060 | 09/01/88 |
| UNDERGROUND MINE | 2.30 | 39.70 | 53.30 | FLOYD | 7.00 | 76.50 | 5.30 | 2.40 | W210316 | 372953 | 824366 | B | 13770 | 09/01/88 |
| SURFACE MINE | 4.10 | 37.90 | 59.60 | LEE | 2.50 | 80.20 | 5.30 | 0.60 | W211631 | 372959 | 834926 | B | 14150 | 09/01/88 |
| CONGLETON BROS MINE | 6.80 | 37.30 | 51.10 | LEE | 11.60 | 71.30 | 4.90 | 1.00 | D176684 | 373000 | 834500 | B | 12710 | 09/01/88 |
| SURFACE MINE | 3.50 | 39.00 | 46.10 | OWSLEY | 14.90 | 68.30 | 4.90 | 4.10 | W213949 | 373012 | 833512 | B | 12420 | 09/01/88 |
| SURFACE MINE | 3.60 | 36.00 | 53.00 | BREATHITT | 11.00 | 73.60 | 4.60 | 1.10 | W211617 | 373035 | 830832 | B | 12760 | 09/01/88 |
| SURFACE MINE | 5.00 | 37.60 | 60.30 | LEE | 2.10 | 80.60 | 5.20 | 0.70 | W210253 | 373035 | 834742 | B | 14250 | 09/01/88 |
| UNDERGROUND MINE | 2.50 | 37.90 | 52.50 | FLOYD | 9.60 | 74.30 | 5.10 | 1.30 | W210315 | 373045 | 824219 | B | 13230 | 09/01/88 |
| SURFACE MINE | 1.80 | 32.70 | 62.10 | PIKE | 5.20 | 81.90 | 5.10 | 0.90 | W210431 | 373054 | 820955 | B | 14460 | 09/01/88 |
| PROSPECT | 2.60 | 31.20 | 51.70 | PIKE | 17.10 | 69.60 | 4.40 | 0.70 | W210430 | 373054 | 821022 | B | 12060 | 09/01/88 |

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------|----------|-----------|----------|-----------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| PROSPECT | 1.40 | 36.10 | 57.10 | PIKE | 6.80 | 78.90 | 5.30 | 0.80 | 373055 | 821021 | B | 14120 | 09/01/88 |
| | | | | | | | | | 6.50 | 1.70 | | 7.5 | 2804 |
| PROSPECT | 2.00 | 37.70 | 54.30 | PIKE | 8.00 | 77.90 | 5.30 | 1.60 | 373058 | 821021 | B | 13950 | 09/01/88 |
| | | | | | | | | | 5.30 | 1.90 | | 7.5 | 2309 |
| SURFACE MINE | 2.00 | 45.20 | 48.50 | PIKE | 6.30 | 75.80 | 5.40 | 3.90 | 373115 | 823032 | B | 14010 | 09/01/88 |
| | | | | | | | | | 7.00 | 1.60 | | 3.5 | 2147 |
| SURFACE MINE | 4.10 | 33.80 | 55.40 | JACKSON | 10.80 | 73.30 | 4.90 | 0.60 | 373115 | 840514 | B | 12900 | 09/01/88 |
| | | | | | | | | | 8.80 | 1.60 | | 2.0 | 2804 |
| SURFACE MINE | 5.20 | 36.50 | 55.40 | BREATHITT | 8.10 | 76.00 | 5.10 | 0.70 | 373117 | 831140 | B | 13270 | 09/01/88 |
| | | | | | | | | | 8.50 | 1.60 | | 1.0 | 2804 |
| SURFACE MINE | 2.70 | 37.60 | 58.60 | PIKE | 3.80 | 81.20 | 5.40 | 0.80 | 373118 | 823029 | B | 14340 | 09/01/88 |
| | | | | | | | | | 7.10 | 1.70 | | 3.5 | 2777 |
| SURFACE MINE | 3.80 | 38.60 | 54.20 | BREATHITT | 7.20 | 77.20 | 5.00 | 0.70 | 373118 | 831117 | B | 13570 | 09/01/88 |
| | | | | | | | | | 8.40 | 1.50 | | 1.5 | 2804 |
| SURFACE MINE | 3.70 | 36.10 | 53.80 | BREATHITT | 10.10 | 73.50 | 5.10 | 0.90 | 373120 | 831120 | B | 13070 | 09/01/88 |
| | | | | | | | | | 8.80 | 1.60 | | 2.0 | 2804 |
| ROAD CUT | 3.00 | 40.70 | 49.60 | FLOYD | 9.70 | 72.40 | 5.10 | 5.90 | 373121 | 824735 | B | 13300 | 09/01/88 |
| | | | | | | | | | 5.40 | 1.50 | | 3.0 | 2804 |
| SURFACE MINE | 3.70 | 37.70 | 54.50 | BREATHITT | 7.80 | 75.90 | 5.20 | 1.80 | 373122 | 831120 | B | 13410 | 09/01/88 |
| | | | | | | | | | 7.50 | 1.80 | | 2.5 | 2606 |
| SURFACE MINE | 2.40 | 35.70 | 51.50 | BREATHITT | 12.80 | 71.90 | 4.70 | 1.50 | 373123 | 830533 | B | 12670 | 09/01/88 |
| | | | | | | | | | 7.70 | 1.40 | | 1.0 | 2804 |
| SURFACE MINE | 3.60 | 41.70 | 51.50 | OWSLEY | 6.80 | 74.70 | 5.30 | 3.10 | 373139 | 833907 | B | 13490 | 09/01/88 |
| | | | | | | | | | 8.30 | 1.80 | | 3.0 | 2102 |
| UNDERGROUND MINE | 3.30 | 33.20 | 47.00 | FLOYD | 19.80 | 65.40 | 4.60 | 1.90 | 373147 | 823852 | B | 11770 | 09/01/88 |
| | | | | | | | | | 7.10 | 1.20 | | 4.5 | 2678 |
| ROAD CUT | 2.00 | 38.10 | 49.70 | FLOYD | 12.20 | 72.10 | 5.00 | 1.60 | 373203 | 824706 | B | 12970 | 09/01/88 |
| | | | | | | | | | 7.60 | 1.50 | | 4.5 | 2741 |
| UNDERGROUND MINE | 3.60 | 34.80 | 50.40 | FLOYD | 14.80 | 69.60 | 4.80 | 0.80 | 373235 | 824021 | B | 12480 | 09/01/88 |
| | | | | | | | | | 8.50 | 1.50 | | 3.5 | 2804 |
| SURFACE MINE | 3.30 | 37.50 | 56.10 | BREATHITT | 6.40 | 76.20 | 4.80 | 0.70 | 373236 | 830538 | B | 13390 | 09/01/88 |
| | | | | | | | | | 10.50 | 1.40 | | 1.0 | 2804 |

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-------------------|----------|-----------|----------|-----------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| SURFACE MINE | 6.90 | 34.30 | 58.10 | BREATHITT | 7.60 | 71.50 | 4.40 | 0.60 | 373243 | 830543 | B | 12260 | 09/01/88 |
| | | | | | | | | | 14.40 | 1.50 | | 0.5 | 2804 |
| PROSPECT | 3.60 | 43.20 | 49.40 | BREATHITT | 7.40 | 76.50 | 4.80 | 2.00 | 373245 | 831616 | B | 13690 | 09/01/88 |
| | | | | | | | | | 7.70 | 1.60 | | 3.0 | 2714 |
| ROAD CUT | 2.80 | 40.80 | 50.20 | FLOYD | 9.00 | 74.60 | 5.30 | 1.10 | 373248 | 824624 | B | 13450 | 09/01/88 |
| | | | | | | | | | 8.10 | 1.90 | | 4.5 | 2804 |
| SURFACE MINE | 4.10 | 35.60 | 47.70 | FLOYD | 16.70 | 67.20 | 4.60 | 2.20 | 373251 | 824252 | B | 12080 | 09/01/88 |
| | | | | | | | | | 7.70 | 1.60 | | 4.5 | 2804 |
| SURFACE MINE | 3.40 | 38.00 | 53.40 | BREATHITT | 8.60 | 73.70 | 5.30 | 0.80 | 373259 | 831523 | B | 13250 | 09/01/88 |
| | | | | | | | | | 9.90 | 1.70 | | 1.5 | 0 |
| PORTAL | 3.40 | 36.60 | 50.60 | MAGOFFIN | 12.80 | 71.50 | 4.80 | 1.00 | 373323 | 825650 | B | 12700 | 09/01/88 |
| | | | | | | | | | 8.60 | 1.30 | | 0.0 | 0 |
| CONSTRUCTION SITE | 4.30 | 36.80 | 49.80 | PIKE | 13.40 | 71.10 | 4.50 | 1.20 | 373329 | 823347 | B | 12690 | 09/01/88 |
| | | | | | | | | | 8.40 | 1.40 | | 1.5 | 2804 |
| CONSTRUCTION SITE | 5.70 | 37.70 | 56.40 | PIKE | 5.90 | 78.50 | 5.00 | 0.80 | 373330 | 823346 | B | 13860 | 09/01/88 |
| | | | | | | | | | 8.30 | 1.50 | | 2.0 | 2804 |
| CONSTRUCTION SITE | 5.50 | 34.20 | 51.60 | PIKE | 14.20 | 70.70 | 4.70 | 0.90 | 373330 | 823348 | B | 12460 | 09/01/88 |
| | | | | | | | | | 8.20 | 1.30 | | 1.5 | 2804 |
| SURFACE MINE | 3.40 | 36.30 | 49.70 | BREATHITT | 14.00 | 69.70 | 4.80 | 0.70 | 373403 | 831236 | B | 12470 | 09/01/88 |
| | | | | | | | | | 9.60 | 1.20 | | 1.0 | 2804 |
| SURFACE MINE | 4.20 | 37.10 | 51.40 | BREATHITT | 11.50 | 71.70 | 4.80 | 0.70 | 373409 | 831242 | B | 12780 | 09/01/88 |
| | | | | | | | | | 9.80 | 1.50 | | 1.0 | 2804 |
| ROAD CUT | 3.60 | 39.60 | 54.40 | LEE | 6.00 | 75.90 | 5.20 | 2.50 | 373424 | 834224 | B | 13660 | 09/01/88 |
| | | | | | | | | | 8.60 | 1.80 | | 2.5 | 2057 |
| SURFACE MINE | 3.00 | 37.50 | 55.90 | PIKE | 6.60 | 77.50 | 5.00 | 0.60 | 373454 | 822537 | B | 13710 | 09/01/88 |
| | | | | | | | | | 8.80 | 1.50 | | 2.0 | 2804 |
| SURFACE MINE | 3.60 | 36.10 | 60.20 | PIKE | 3.70 | 79.70 | 5.00 | 0.70 | 373459 | 822537 | B | 14070 | 09/01/88 |
| | | | | | | | | | 9.30 | 1.60 | | 2.0 | 2759 |
| ROAD CUT | 5.10 | 38.30 | 57.60 | LEE | 4.10 | 77.70 | 5.30 | 0.60 | 373504 | 834201 | B | 13840 | 09/01/88 |
| | | | | | | | | | 10.50 | 1.80 | | 1.0 | 2606 |
| ROAD CUT | 3.30 | 36.80 | 53.60 | FLOYD | 9.60 | 74.80 | 5.20 | 0.80 | 373510 | 824601 | B | 13380 | 09/01/88 |
| | | | | | | | | | 7.80 | 1.80 | | 5.0 | 2804 |

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Code Number | | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-----------------------------|----------|-----------|----------|-----------|--------|-------------|--------|----------|-----------|-----------|------------|-----------|
| | | | | Ash | | Hydrogen | Sulfur | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| ROAD CUT | | | | FLOYD | | W208215 | | 373513 | 824601 | B | 9200 | 09/01/88 |
| 2.80 | 28.80 | 36.10 | 35.10 | | 52.30 | 3.90 | 1.00 | 6.40 | 1.30 | | 2.5 | 2804 |
| ROAD CUT | | | | FLOYD | | W208213 | | 373513 | 824603 | B | 12730 | 09/01/88 |
| 2.10 | 45.00 | 41.50 | 13.50 | | 68.10 | 5.30 | 5.00 | 6.60 | 1.50 | | 4.5 | 2633 |
| UNDERGROUND MINE | | | | FLOYD | | W207474 | | 373536 | 824309 | B | 12580 | 09/01/88 |
| 4.50 | 35.30 | 52.00 | 12.70 | | 71.40 | 4.70 | 0.70 | 9.00 | 1.50 | | 1.0 | 2804 |
| SURFACE MINE | | | | MAGOFFIN | | W210503 | | 373540 | 825414 | B | 13590 | 09/01/88 |
| 3.50 | 36.30 | 58.20 | 5.50 | | 77.40 | 5.10 | 0.70 | 9.70 | 1.60 | | 1.0 | 2804 |
| SURFACE MINE | | | | MAGOFFIN | | W210159 | | 373606 | 830732 | B | 12520 | 09/01/88 |
| 3.70 | 37.10 | 50.10 | 12.80 | | 70.70 | 4.90 | 1.00 | 9.10 | 1.50 | | 1.0 | 2804 |
| UNDERGROUND MINE | | | | PIKE | | W209676 | | 373612 | 822230 | B | 13290 | 09/01/88 |
| 1.90 | 35.30 | 54.00 | 10.70 | | 75.00 | 5.10 | 0.50 | 7.50 | 1.20 | | 3.0 | 2912 |
| SURFACE MINE | | | | MAGOFFIN | | W210160 | | 373654 | 830722 | B | 12940 | 09/01/88 |
| 5.80 | 35.70 | 54.40 | 9.90 | | 74.10 | 5.00 | 0.70 | 8.80 | 1.50 | | 1.0 | 2804 |
| SURFACE MINE | | | | MAGOFFIN | | W215546 | | 373657 | 830105 | B | 12680 | 09/01/88 |
| 3.50 | 35.10 | 51.70 | 13.20 | | 71.70 | 4.70 | 0.80 | 8.10 | 1.50 | | 1.5 | 2804 |
| SURFACE MINE | | | | MAGOFFIN | | W215547 | | 373700 | 830107 | B | 12520 | 09/01/88 |
| 3.70 | 36.30 | 49.90 | 13.80 | | 69.70 | 4.60 | 3.50 | 7.00 | 1.40 | | 1.5 | 2039 |
| SURFACE MINE | | | | MAGOFFIN | | W215548 | | 373701 | 830110 | B | 14380 | 09/01/88 |
| 4.60 | 40.40 | 56.10 | 3.50 | | 80.20 | 5.40 | 0.80 | 8.40 | 1.70 | | 3.0 | 2804 |
| SURFACE MINE | | | | MAGOFFIN | | W215549 | | 373705 | 830110 | B | 11800 | 09/01/88 |
| 3.40 | 37.00 | 44.60 | 18.40 | | 65.20 | 4.70 | 3.80 | 6.60 | 1.30 | | 3.0 | 2354 |
| NICKEL CONSTR CO STRIP MINE | | | | LEE | | D176683 | | 373730 | 833730 | B | 11100 | 09/01/88 |
| 15.70 | 37.20 | 44.30 | 18.50 | | 63.70 | 4.60 | 2.50 | 9.20 | 1.50 | | 3.0 | 2183 |
| SURFACE MINE | | | | BREATHITT | | W214267 | | 373740 | 832723 | B | 14610 | 09/01/88 |
| 5.20 | 38.40 | 59.90 | 1.70 | | 81.80 | 5.50 | 0.70 | 8.50 | 1.80 | | 3.5 | 2561 |
| SURFACE MINE | | | | WOLFE | | W214266 | | 373744 | 832824 | B | 13340 | 09/01/88 |
| 4.60 | 37.10 | 53.80 | 9.10 | | 74.40 | 5.10 | 1.70 | 8.00 | 1.70 | | 3.5 | 2660 |
| SURFACE MINE | | | | MAGOFFIN | | W209662 | | 373754 | 825701 | B | 13620 | 09/01/88 |
| 3.80 | 38.40 | 55.30 | 6.30 | | 76.30 | 5.20 | 0.70 | 9.90 | 1.60 | | 1.0 | 2804 |
| SURFACE MINE | | | | MAGOFFIN | | W209663 | | 373759 | 825659 | B | 12870 | 09/01/88 |
| 3.20 | 37.40 | 51.00 | 11.60 | | 71.80 | 5.00 | 0.70 | 9.50 | 1.40 | | 1.0 | 2804 |

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank Hardgrove | Htg Val Free Swell | Last Chg Hemi Temp | | |
|------------------|----------|-----------|----------|----------|--------|----------|--------|--------------------|-----------------------|-------------------|-----------------------|-----------------------|----------|------|
| SURFACE MINE | | | | PIKE | | | | | | | | | | |
| 3.30 | 38.30 | 53.80 | | 7.90 | 75.90 | W211694 | 5.00 | 1.40 | 8.30 | 822952 | B | 13430 | 09/01/88 | 2750 |
| ROAD CUT | | | | PIKE | | | | | | | | | | |
| 1.90 | 32.90 | 54.90 | | 12.20 | 74.50 | W215399 | 4.60 | 0.50 | 6.70 | 821603 | B | 13140 | 09/01/88 | 2579 |
| ROAD CUT | | | | PIKE | | | | | | | | | | |
| 2.10 | 36.70 | 57.90 | | 5.40 | 79.80 | W215400 | 5.30 | 0.90 | 6.90 | 821602 | B | 14200 | 09/01/88 | 2804 |
| UNDERGROUND MINE | | | | PIKE | | | | | | | | | | |
| 3.60 | 36.30 | 58.80 | | 4.90 | 78.50 | W210345 | 5.00 | 0.80 | 9.20 | 822534 | B | 13750 | 09/01/88 | 2804 |
| UNDERGROUND MINE | | | | PIKE | | | | | | | | | | |
| 2.80 | 34.00 | 56.60 | | 9.40 | 76.20 | W210343 | 5.00 | 0.60 | 7.20 | 822052 | B | 13470 | 09/01/88 | 2552 |
| SURFACE MINE | | | | MAGOFFIN | | | | | | | | | | |
| 3.30 | 36.80 | 49.50 | | 13.70 | 69.60 | W209666 | 4.90 | 1.00 | 9.40 | 825931 | B | 12480 | 09/01/88 | 2804 |
| SURFACE MINE | | | | MAGOFFIN | | | | | | | | | | |
| 3.20 | 37.20 | 50.20 | | 12.60 | 69.90 | W209664 | 5.00 | 2.00 | 9.10 | 825928 | B | 12610 | 09/01/88 | 2417 |
| SURFACE MINE | | | | WOLFE | | | | | | | | | | |
| 4.70 | 39.90 | 52.30 | | 7.80 | 72.60 | W215418 | 5.00 | 4.20 | 8.60 | 833517 | B | 13230 | 09/01/88 | 2084 |
| PORTAL | | | | FLOYD | | | | | | | | | | |
| 3.60 | 39.90 | 50.80 | | 9.30 | 70.70 | W207114 | 5.10 | 2.30 | 11.00 | 824523 | B | 12960 | 09/01/88 | 2264 |
| ROAD CUT | | | | PIKE | | | | | | | | | | |
| 1.80 | 39.70 | 48.90 | | 11.40 | 71.20 | W215401 | 5.00 | 5.90 | 5.10 | 821653 | B | 13170 | 09/01/88 | 2156 |
| SURFACE MINE | | | | MAGOFFIN | | | | | | | | | | |
| 3.40 | 34.90 | 49.60 | | 15.50 | 69.10 | W211624 | 4.60 | 1.30 | 8.00 | 831211 | B | 12140 | 09/01/88 | 2804 |
| SURFACE MINE | | | | MAGOFFIN | | | | | | | | | | |
| 3.50 | 43.60 | 48.50 | | 7.90 | 74.50 | W209900 | 5.40 | 2.00 | 8.90 | 830334 | B | 13510 | 09/01/88 | 2606 |
| UNDERGROUND MINE | | | | FLOYD | | | | | | | | | | |
| 3.70 | 36.40 | 48.40 | | 15.20 | 68.80 | W207821 | 4.80 | 2.20 | 7.50 | 824516 | B | 12430 | 09/01/88 | 2390 |
| UNDERGROUND MINE | | | | FLOYD | | | | | | | | | | |
| 3.80 | 38.30 | 45.90 | | 15.80 | 68.00 | W207820 | 4.90 | 2.90 | 6.90 | 824517 | B | 12300 | 09/01/88 | 2246 |
| SURFACE MINE | | | | MAGOFFIN | | | | | | | | | | |
| 6.50 | 39.60 | 54.90 | | 5.50 | 75.20 | W209898 | 4.90 | 1.10 | 11.70 | 830325 | B | 13350 | 09/01/88 | 2570 |
| SURFACE MINE | | | | FLOYD | | | | | | | | | | |
| 5.50 | 33.30 | 45.00 | | 21.70 | 62.60 | W207111 | 4.40 | 0.70 | 9.30 | 834524 | B | 11160 | 09/01/88 | 2804 |

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-------------------|----------|-----------|----------|--------|------|--------|----------|--------|----------|-----------|------|---------|----------|
| PROSPECT | | | | WOLFE | | | | | | | | | |
| 6.10 | 38.70 | 57.70 | 3.60 | 76.10 | 5.10 | 1.50 | 374219 | 833939 | B | 13300 | 2.0 | 2264 | 09/01/88 |
| UNDERGROUND MINE | | | | PIKE | | | | | | | | | |
| 2.40 | 37.50 | 50.10 | 12.40 | 71.50 | 5.00 | 2.40 | 374226 | 822214 | B | 12860 | 4.0 | 2498 | 09/01/88 |
| UNDERGROUND MINE | | | | FLOYD | | | | | | | | | |
| 5.00 | 33.10 | 50.90 | 16.00 | 68.30 | 4.40 | 1.10 | 374233 | 823758 | B | 12100 | 1.0 | 2804 | 09/01/88 |
| UNDERGROUND MINE | | | | FLOYD | | | | | | | | | |
| 5.70 | 33.00 | 52.20 | 14.80 | 70.00 | 4.50 | 0.80 | 374233 | 823801 | B | 12310 | 4.5 | 2804 | 09/01/88 |
| UNDERGROUND MINE | | | | PIKE | | | | | | | | | |
| 3.40 | 40.30 | 52.60 | 7.10 | 76.30 | 5.30 | 2.80 | 374244 | 822139 | B | 13780 | 4.0 | 2282 | 09/01/88 |
| SURFACE MINE | | | | MARTIN | | | | | | | | | |
| 3.40 | 29.50 | 43.80 | 26.70 | 59.10 | 3.90 | 1.30 | 374252 | 823329 | B | 10300 | 1.5 | 2804 | 09/01/88 |
| UNDERGROUND MINE | | | | MARTIN | | | | | | | | | |
| 3.40 | 36.10 | 54.90 | 9.00 | 74.30 | 4.70 | 1.10 | 374257 | 823721 | B | 13110 | 1.0 | 2804 | 09/01/88 |
| SURFACE MINE | | | | MARTIN | | | | | | | | | |
| 3.70 | 34.80 | 52.40 | 12.80 | 70.80 | 4.70 | 1.10 | 374310 | 823302 | B | 12530 | 2.0 | 2804 | 09/01/88 |
| SURFACE MINE | | | | MARTIN | | | | | | | | | |
| 3.00 | 38.60 | 57.00 | 4.40 | 78.60 | 5.10 | 0.60 | 374310 | 823447 | B | 13850 | 1.5 | 2804 | 09/01/88 |
| SURFACE MINE | | | | FLOYD | | | | | | | | | |
| 3.50 | 41.30 | 53.90 | 4.80 | 78.80 | 5.40 | 0.60 | 374310 | 824042 | B | 13960 | 1.0 | 2912 | 09/01/88 |
| SURFACE MINE | | | | MARTIN | | | | | | | | | |
| 3.50 | 35.90 | 48.40 | 15.70 | 68.60 | 4.30 | 2.30 | 374316 | 823155 | B | 12170 | 1.5 | 2543 | 09/01/88 |
| UNDERGROUND MINE | | | | MARTIN | | | | | | | | | |
| 2.80 | 34.30 | 50.70 | 15.00 | 69.30 | 4.70 | 0.90 | 374316 | 823443 | B | 12240 | 1.0 | 2804 | 09/01/88 |
| UNDERGROUND MINE | | | | PIKE | | | | | | | | | |
| 2.40 | 33.40 | 39.90 | 26.70 | 58.20 | 4.20 | 4.10 | 374335 | 822145 | B | 10640 | 4.5 | 2480 | 09/01/88 |
| UNDERGROUND MINE | | | | MARTIN | | | | | | | | | |
| 2.10 | 37.70 | 54.30 | 8.00 | 75.90 | 5.20 | 1.20 | 374336 | 823049 | B | 13520 | 3.5 | 2696 | 09/01/88 |
| CONSTRUCTION SITE | | | | WOLFE | | | | | | | | | |
| 4.90 | 36.00 | 55.40 | 8.60 | 73.50 | 5.00 | 1.10 | 374404 | 833336 | B | 13120 | 1.5 | 2804 | 09/01/88 |
| AUGER MINE | | | | MARTIN | | | | | | | | | |
| 5.30 | 33.10 | 50.80 | 16.10 | 67.50 | 4.60 | 0.80 | 374444 | 822046 | B | 11930 | 1.5 | 2804 | 09/01/88 |

Coal Field Information Printout for: KY - Kentucky

| Location | | County | | | Code Number | | Latitude | | Longitude | | Rank | Htg Val | Last Chg |
|--------------|-----------|----------|---------|--------|-------------|--------|----------|----------|-----------|------------|-----------|---------|----------|
| Moisture | Volatiles | Fxd Crbn | Ash | Carbon | Hydrogen | Sulfur | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp | | |
| SURFACE MINE | | | MARTIN | | W211635 | | 374503 | 822918 | B | 12300 | 09/01/88 | | |
| 2.80 | 35.10 | 50.10 | 14.80 | 69.80 | 4.60 | 0.90 | 8.30 | 1.60 | | 1.5 | 2804 | | |
| PROSPECT | | | MARTIN | | W208051 | | 374504 | 822010 | B | 11230 | 09/01/88 | | |
| 10.70 | 31.20 | 53.00 | 15.80 | 65.10 | 4.00 | 0.70 | 13.10 | 1.30 | | 0.0 | 2804 | | |
| SURFACE MINE | | | MARTIN | | W211687 | | 374506 | 822727 | B | 13310 | 09/01/88 | | |
| 2.50 | 37.50 | 53.50 | 9.00 | 75.30 | 5.00 | 1.00 | 8.10 | 1.60 | | 2.5 | 2804 | | |
| PROSPECT | | | MARTIN | | W208054 | | 374520 | 822002 | B | 13400 | 09/01/88 | | |
| 4.20 | 37.70 | 52.80 | 9.50 | 74.80 | 5.00 | 0.70 | 8.30 | 1.70 | | 3.5 | 2786 | | |
| SURFACE MINE | | | MARTIN | | W208050 | | 374526 | 822000 | B | 12770 | 09/01/88 | | |
| 4.30 | 35.70 | 50.70 | 13.60 | 71.50 | 4.90 | 0.90 | 7.70 | 1.40 | | 4.5 | 2804 | | |
| PROSPECT | | | MARTIN | | W208053 | | 374526 | 822005 | B | 14440 | 09/01/88 | | |
| 5.00 | 36.90 | 60.00 | 3.10 | 80.30 | 5.30 | 0.70 | 8.90 | 1.70 | | 3.0 | 2579 | | |
| SURFACE MINE | | | MARTIN | | W208055 | | 374526 | 822011 | B | 12770 | 09/01/88 | | |
| 4.20 | 35.30 | 51.10 | 13.60 | 71.40 | 4.80 | 0.90 | 7.80 | 1.50 | | 1.0 | 2804 | | |
| SURFACE MINE | | | MARTIN | | W212504 | | 374529 | 823215 | B | 11820 | 09/01/88 | | |
| 4.10 | 34.20 | 49.50 | 16.30 | 67.80 | 4.40 | 1.10 | 9.00 | 1.40 | | 1.5 | 2804 | | |
| PROSPECT | | | MARTIN | | W208052 | | 374535 | 821954 | B | 10090 | 09/01/88 | | |
| 13.80 | 32.00 | 47.90 | 20.10 | 60.30 | 3.80 | 0.50 | 14.00 | 1.30 | | 0.0 | 2804 | | |
| SURFACE MINE | | | MARTIN | | W210262 | | 374546 | 823826 | B | 13450 | 09/01/88 | | |
| 3.70 | 37.60 | 56.30 | 6.10 | 76.60 | 4.90 | 1.40 | 9.50 | 1.50 | | 1.5 | 2750 | | |
| SURFACE MINE | | | MARTIN | | W210263 | | 374552 | 823839 | B | 10970 | 09/01/88 | | |
| 3.90 | 29.00 | 48.20 | 22.80 | 64.00 | 3.50 | 0.40 | 8.20 | 1.10 | | 1.0 | 2804 | | |
| SURFACE MINE | | | MARTIN | | W211634 | | 374554 | 822756 | B | 12840 | 09/01/88 | | |
| 3.00 | 35.40 | 53.00 | 11.60 | 73.00 | 4.60 | 0.60 | 8.80 | 1.40 | | 1.5 | 2804 | | |
| SURFACE MINE | | | MARTIN | | W212596 | | 374556 | 822315 | B | 13370 | 09/01/88 | | |
| 2.80 | 37.90 | 52.60 | 9.50 | 74.50 | 5.00 | 1.40 | 7.90 | 1.70 | | 3.0 | 2804 | | |
| SURFACE MINE | | | JOHNSON | | W203623 | | 374629 | 824059 | B | 13520 | 09/01/88 | | |
| 5.70 | 38.40 | 54.50 | 7.10 | 76.10 | 5.10 | 0.70 | 9.50 | 1.50 | | 1.0 | 2660 | | |
| SURFACE MINE | | | MARTIN | | W205332 | | 374640 | 823610 | B | 11730 | 09/01/88 | | |
| 5.70 | 33.00 | 48.50 | 18.50 | 66.60 | 4.70 | 0.60 | 8.10 | 1.50 | | 1.0 | 2804 | | |
| ROAD CUT | | | WOLFE | | W210433 | | 374717 | 832059 | B | 13790 | 09/01/88 | | |
| 3.70 | 40.60 | 54.90 | 4.50 | 77.00 | 5.30 | 2.10 | 9.20 | 1.90 | | 1.5 | 2039 | | |

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank | Htg Val Free Swell | Last Chg Hemi Temp |
|------------------|----------|-----------|----------|---------|-------|--------|----------|--------|--------------------|-----------------------|------|-----------------------|-----------------------|
| SURFACE MINE | 4.00 | 39.60 | 52.30 | JOHNSON | 8.10 | 75.20 | W209895 | 1.00 | 374723 9.50 | 824258 1.10 | B | 13330 1.0 | 09/01/88 2912 |
| SURFACE MINE | 2.60 | 29.70 | 36.30 | JOHNSON | 34.00 | 52.40 | W210293 | 1.80 | 374727 6.60 | 824302 1.20 | B | 9370 1.0 | 09/01/88 2804 |
| UNDERGROUND MINE | 1.90 | 37.20 | 54.90 | MARTIN | 7.90 | 76.80 | W211637 | 1.80 | 374732 6.80 | 822123 1.70 | B | 13670 5.0 | 09/01/88 2480 |
| SURFACE MINE | 3.30 | 39.20 | 49.50 | MORGAN | 11.30 | 71.00 | W210432 | 3.60 | 374732 7.10 | 831947 2.00 | B | 12820 3.0 | 09/01/88 2102 |
| UNDERGROUND MINE | 2.10 | 37.20 | 52.30 | MARTIN | 10.50 | 75.10 | W211636 | 0.90 | 374749 6.90 | 822206 1.60 | B | 13230 4.0 | 09/01/88 2561 |
| ROAD CUT | 4.60 | 42.90 | 52.40 | MORGAN | 4.70 | 77.00 | W213950 | 2.80 | 374815 8.40 | 832025 1.80 | B | 13800 4.5 | 09/01/88 2138 |
| SURFACE MINE | 3.50 | 35.20 | 59.40 | MARTIN | 5.40 | 77.60 | W210501 | 0.80 | 374817 9.60 | 832220 1.60 | B | 13730 1.5 | 09/01/88 2804 |
| PROSPECT | 3.40 | 35.10 | 53.50 | MARTIN | 11.40 | 71.80 | W210502 | 0.70 | 374823 9.90 | 823228 1.50 | B | 12590 1.0 | 09/01/88 2804 |
| ROAD CUT | 5.90 | 41.50 | 54.40 | MORGAN | 4.10 | 77.70 | W213951 | 3.00 | 375020 8.40 | 831931 1.60 | B | 14020 4.5 | 09/01/88 2039 |
| SURFACE MINE | 5.10 | 35.60 | 50.50 | MARTIN | 13.90 | 69.80 | W207982 | 0.90 | 375027 9.00 | 823451 1.50 | B | 12480 1.0 | 09/01/88 2804 |
| SURFACE MINE | 6.50 | 41.60 | 55.20 | MORGAN | 3.20 | 78.50 | W209903 | 0.90 | 375101 10.20 | 831106 1.70 | B | 14030 1.5 | 09/01/88 2804 |
| SURFACE MINE | 4.20 | 32.90 | 44.10 | MORGAN | 23.00 | 60.30 | W209905 | 3.00 | 375102 8.30 | 831115 1.10 | B | 10850 1.0 | 09/01/88 2579 |
| SURFACE MINE | 4.40 | 32.30 | 42.60 | MORGAN | 25.10 | 59.90 | W209904 | 1.60 | 375104 7.90 | 831105 1.20 | B | 10610 1.0 | 09/01/88 2804 |
| MINE FACE | 10.20 | 32.40 | 42.40 | JOHNSON | 25.20 | 57.20 | W205319 | 0.80 | 375255 11.30 | 824715 1.40 | B | 9970 0.0 | 09/01/88 2309 |
| SURFACE MINE | 4.00 | 35.30 | 49.00 | MARTIN | 15.70 | 68.80 | W210029 | 0.50 | 375318 9.00 | 823555 1.40 | B | 12160 1.0 | 09/01/88 2804 |
| UNDERGROUND MINE | 5.80 | 39.10 | 51.00 | JOHNSON | 9.90 | 72.60 | W205315 | 3.20 | 375321 7.30 | 825151 1.70 | B | 13060 2.0 | 09/01/88 2057 |

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank Hardgrove | Htg Val Free Swell | Last Chg Hemi Temp |
|--------------|----------|-----------|----------|----------|--------|----------|--------|--------------------|-----------------------|-------------------|-----------------------|-----------------------|
| SURFACE MINE | 4.10 | 38.80 | 51.70 | MARTIN | 73.00 | W210028 | 1.50 | 375323 | 823509 | B | 13070 | 09/01/88 |
| | 4.90 | 37.90 | 54.20 | LAWRENCE | 74.40 | W205318 | 0.60 | 375325 | 823555 | B | 13320 | 09/01/88 |
| SURFACE MINE | 12.30 | 31.60 | 52.80 | LAWRENCE | 64.30 | D182462 | 0.60 | 375331 | 823846 | B | 10820 | 09/01/88 |
| | 5.00 | 33.40 | 46.30 | LAWRENCE | 63.70 | W207863 | 2.60 | 375350 | 823633 | B | 11310 | 09/01/88 |
| SURFACE MINE | 4.90 | 30.10 | 55.60 | LAWRENCE | 69.80 | D182463 | 0.80 | 375358 | 823907 | B | 12270 | 09/01/88 |
| | 6.60 | 38.80 | 60.20 | JOHNSON | 81.90 | W203634 | 0.60 | 375425 | 825611 | B | 14290 | 09/01/88 |
| SURFACE MINE | 3.10 | 37.40 | 48.30 | LAWRENCE | 70.10 | D171586 | 0.70 | 375445 | 824440 | B | 12360 | 09/01/88 |
| | 2.30 | 33.00 | 30.90 | LAWRENCE | 46.90 | D171593 | 6.60 | 375500 | 824345 | B | 8590 | 09/01/88 |
| SURFACE MINE | 2.60 | 32.30 | 32.20 | LAWRENCE | 49.70 | D171594 | 4.10 | 375505 | 824345 | B | 8850 | 09/01/88 |
| | 4.70 | 28.60 | 39.20 | JOHNSON | 54.30 | W205316 | 0.80 | 375521 | 824842 | B | 9520 | 09/01/88 |
| SURFACE MINE | 2.90 | 37.50 | 51.10 | LAWRENCE | 72.90 | D171589 | 0.70 | 375550 | 824110 | B | 12840 | 09/01/88 |
| | 3.70 | 43.10 | 52.00 | MORGAN | 76.90 | W203632 | 3.30 | 375609 | 825954 | B | 14070 | 09/01/88 |
| SURFACE MINE | 2.40 | 33.90 | 32.40 | LAWRENCE | 50.50 | D171595 | 5.30 | 375635 | 824030 | B | 9080 | 09/01/88 |
| | 4.50 | 39.50 | 52.40 | MARTIN | 75.00 | W210026 | 0.90 | 375642 | 823401 | B | 13430 | 09/01/88 |
| ROAD CUT | 5.10 | 37.50 | 47.20 | LAWRENCE | 68.80 | W213948 | 1.10 | 375644 | 823925 | B | 12200 | 09/01/88 |
| | 8.50 | 35.90 | 60.70 | LAWRENCE | 80.20 | W213939 | 0.70 | 375654 | 823935 | B | 14130 | 09/01/88 |

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Free Swell | Hemi Temp | Last Chg |
|--------------|----------|-----------|----------|----------|-------|--------|----------|--------|----------|-----------|------|---------|------------|-----------|----------|
| SURFACE MINE | 6.80 | 37.90 | 61.10 | MORGAN | 1.00 | 81.40 | 5.30 | 0.60 | 375702 | 825933 | B | 14260 | 1.0 | 2408 | 09/01/88 |
| ROAD CUT | 4.30 | 31.60 | 42.80 | LAWRENCE | 25.60 | 59.80 | 4.20 | 0.60 | 375703 | 823956 | B | 10470 | 1.0 | 2804 | 09/01/88 |
| SURFACE MINE | 5.20 | 36.50 | 50.40 | LAWRENCE | 13.10 | 70.70 | 5.10 | 1.90 | 375744 | 823335 | B | 12610 | 1.5 | 2507 | 09/01/88 |
| SURFACE MINE | 7.40 | 36.60 | 61.70 | JOHNSON | 1.70 | 81.10 | 4.70 | 0.60 | 375829 | 825540 | B | 13960 | 1.0 | 2714 | 09/01/88 |
| SURFACE MINE | 3.50 | 41.60 | 51.80 | LAWRENCE | 6.60 | 76.80 | 5.50 | 0.90 | 375917 | 824041 | B | 13750 | 1.0 | 2804 | 09/01/88 |
| SURFACE MINE | 4.50 | 35.80 | 59.30 | LAWRENCE | 4.90 | 78.30 | 4.70 | 0.70 | 375919 | 824043 | B | 13720 | 1.0 | 2804 | 09/01/88 |
| | 2.80 | 36.90 | 34.90 | LAWRENCE | 28.20 | 55.20 | 4.20 | 5.30 | 375920 | 823955 | B | 10020 | 0.0 | 0 | 09/01/88 |
| SURFACE MINE | 15.90 | 38.00 | 53.30 | LAWRENCE | 8.70 | 70.50 | 4.90 | 0.80 | 380010 | 823753 | B | 12060 | 0.0 | 2363 | 09/01/88 |
| SURFACE MINE | 4.70 | 41.70 | 51.40 | MORGAN | 6.90 | 74.50 | 5.30 | 2.80 | 380010 | 830343 | B | 13510 | 1.0 | 2192 | 09/01/88 |
| SURFACE MINE | 5.80 | 37.20 | 50.40 | MORGAN | 12.40 | 70.30 | 4.80 | 0.70 | 380011 | 830329 | B | 12460 | 1.0 | 2354 | 09/01/88 |
| SURFACE MINE | 6.00 | 31.10 | 41.20 | MORGAN | 27.70 | 55.90 | 4.00 | 1.20 | 380013 | 830329 | B | 9760 | 0.0 | 2804 | 09/01/88 |
| SURFACE MINE | 5.20 | 36.80 | 47.70 | MORGAN | 15.50 | 66.00 | 4.80 | 3.30 | 380024 | 830555 | B | 12010 | 2.0 | 2282 | 09/01/88 |
| | 5.20 | 39.00 | 55.40 | LAWRENCE | 5.60 | 77.00 | 5.30 | 0.70 | 380056 | 824623 | B | 13680 | 1.5 | 2732 | 09/01/88 |
| SURFACE MINE | 3.80 | 40.20 | 51.50 | ELLIOTT | 8.30 | 73.90 | 5.00 | 2.00 | 380117 | 830040 | B | 13470 | 1.0 | 2561 | 09/01/88 |
| | 2.90 | 38.10 | 54.80 | LAWRENCE | 7.10 | 76.60 | 5.10 | 0.80 | 380138 | 824818 | B | 13480 | 0.0 | 0 | 09/01/88 |
| | 4.40 | 38.00 | 48.50 | LAWRENCE | 13.50 | 71.10 | 4.90 | 0.60 | 380139 | 824819 | B | 12670 | 0.0 | 0 | 09/01/88 |

Coal Field Information Printout for: KY - Kentucky

| Location | | County | | Code Number | | Latitude | | Longitude | | Rank | Htg Val | Last Chg |
|--------------|-----------|----------|----------|-------------|----------|----------|--------|-----------|-----------|------------|-----------|----------|
| Moisture | Volatiles | Fxd Crbn | Ash | Carbon | Hydrogen | Sulfur | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp | |
| 5.50 | 40.50 | 47.30 | LAWRENCE | 71.10 | D169556 | 5.00 | 380140 | 823430 | B | 12800 | 0.0 | 09/01/88 |
| SURFACE MINE | | | | | | | | | | | | |
| 4.80 | 37.90 | 49.60 | ELLIOTT | 69.00 | W209894 | 4.80 | 380144 | 830624 | B | 12500 | 2.0 | 09/01/88 |
| SURFACE MINE | | | | | | | | | | | | |
| 5.00 | 38.00 | 56.80 | ELLIOTT | 76.80 | W210292 | 5.20 | 380146 | 830622 | B | 13700 | 1.0 | 09/01/88 |
| SURFACE MINE | | | | | | | | | | | | |
| 4.20 | 39.50 | 44.20 | LAWRENCE | 66.10 | D169557 | 4.70 | 380154 | 823449 | B | 11940 | 0.0 | 09/01/88 |
| SURFACE MINE | | | | | | | | | | | | |
| 7.40 | 35.10 | 53.00 | LAWRENCE | 72.40 | W205334 | 5.10 | 380217 | 824219 | B | 12660 | 1.0 | 09/01/88 |
| SURFACE MINE | | | | | | | | | | | | |
| 4.30 | 41.80 | 43.90 | LAWRENCE | 67.70 | D174712 | 4.70 | 380254 | 823439 | B | 12060 | 0.3 | 09/01/88 |
| SURFACE MINE | | | | | | | | | | | | |
| 5.30 | 40.80 | 41.60 | LAWRENCE | 63.90 | D174721 | 4.10 | 380254 | 824223 | B | 11550 | 3.0 | 09/01/88 |
| SURFACE MINE | | | | | | | | | | | | |
| 6.40 | 41.80 | 52.50 | LAWRENCE | 76.10 | D174723 | 5.00 | 380259 | 824218 | B | 13480 | 1.5 | 09/01/88 |
| SURFACE MINE | | | | | | | | | | | | |
| 6.30 | 39.10 | 52.40 | LAWRENCE | 77.10 | D171581 | 5.00 | 380333 | 825234 | B | 13720 | 0.0 | 09/01/88 |
| SURFACE MINE | | | | | | | | | | | | |
| 6.30 | 36.10 | 46.80 | ELLIOTT | 65.20 | W207115 | 4.80 | 380417 | 830634 | B | 11750 | 1.5 | 09/01/88 |
| SURFACE MINE | | | | | | | | | | | | |
| 6.60 | 38.80 | 51.70 | LAWRENCE | 71.90 | D168263 | 4.80 | 380450 | 824619 | B | 12880 | 0.0 | 09/01/88 |
| SURFACE MINE | | | | | | | | | | | | |
| 4.70 | 43.70 | 49.60 | LAWRENCE | 74.10 | D168260 | 5.20 | 380507 | 824700 | B | 13450 | 0.0 | 09/01/88 |
| SURFACE MINE | | | | | | | | | | | | |
| 5.10 | 37.80 | 55.10 | LAWRENCE | 76.40 | D174716 | 5.10 | 380517 | 824553 | B | 13510 | 2.0 | 09/01/88 |
| SURFACE MINE | | | | | | | | | | | | |
| 7.20 | 38.80 | 52.10 | LAWRENCE | 72.30 | D168264 | 4.80 | 380545 | 825310 | B | 13000 | 0.0 | 09/01/88 |
| SURFACE MINE | | | | | | | | | | | | |
| 4.60 | 41.00 | 51.10 | LAWRENCE | 73.30 | D168261 | 5.00 | 380555 | 824645 | B | 13270 | 0.0 | 09/01/88 |
| SURFACE MINE | | | | | | | | | | | | |
| ROAD CUT | | | | | | | | | | | | |
| 4.20 | 43.50 | 45.50 | LAWRENCE | 69.80 | W208435 | 5.00 | 380904 | 823826 | B | 12860 | 4.0 | 09/01/88 |

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank | Htg Val Free Swell | Last Chg Hemi Temp |
|--------------|----------|-----------|----------|----------|-------|--------|----------|--------|--------------------|-----------------------|------|-----------------------|-----------------------|
| ROAD CUT | 4.60 | 30.60 | 37.00 | LAWRENCE | 32.40 | 48.40 | W211189 | 6.20 | 381017 | 823753 | B | 8910 | 09/01/88 |
| | | | | | | | 3.70 | 6.20 | 8.20 | 1.10 | | 1.5 | 2237 |
| ROAD CUT | 5.50 | 38.60 | 52.90 | LAWRENCE | 8.50 | 72.70 | W208436 | 3.70 | 381212 | 823613 | B | 13220 | 09/01/88 |
| | | | | | | | 5.10 | 3.70 | 8.40 | 1.60 | | 4.0 | 2021 |
| SURFACE MINE | 3.70 | 38.80 | 51.00 | CARTER | 10.20 | 72.80 | W211192 | 0.80 | 381218 | 825730 | B | 12930 | 09/01/88 |
| | | | | | | | 5.10 | 0.80 | 9.50 | 1.60 | | 1.0 | 2804 |
| SURFACE MINE | 5.40 | 35.30 | 46.50 | BOYD | 18.20 | 63.80 | W203629 | 2.40 | 381852 | 824507 | B | 11380 | 09/01/88 |
| | | | | | | | 4.50 | 2.40 | 9.80 | 1.30 | | 1.0 | 2804 |
| SURFACE MINE | 7.80 | 40.90 | 52.70 | BOYD | 6.40 | 74.80 | W203628 | 1.00 | 381907 | 824520 | B | 13250 | 09/01/88 |
| | | | | | | | 5.00 | 1.00 | 11.20 | 1.60 | | 1.0 | 2804 |
| DRILL CORE | 4.10 | 40.00 | 48.60 | CARTER | 11.40 | 59.40 | W211623 | 3.00 | 382004 | 830008 | B | 12520 | 09/01/88 |
| | | | | | | | 4.90 | 3.00 | 9.60 | 1.70 | | 1.0 | 2219 |
| ROAD CUT | 7.00 | 44.50 | 51.40 | CARTER | 4.10 | 75.90 | W207808 | 2.20 | 382132 | 825224 | B | 13900 | 09/01/88 |
| | | | | | | | 5.50 | 2.20 | 10.60 | 1.70 | | 4.0 | 2084 |
| SURFACE MINE | 9.10 | 35.00 | 47.20 | BOYD | 17.80 | 63.40 | W207457 | 0.80 | 382147 | 824431 | B | 11100 | 09/01/88 |
| | | | | | | | 3.90 | 0.80 | 12.80 | 1.30 | | 1.0 | 2804 |
| ROAD CUT | 6.90 | 40.80 | 44.60 | BOYD | 14.60 | 61.80 | W207896 | 7.80 | 382209 | 824729 | B | 11890 | 09/01/88 |
| | | | | | | | 4.50 | 7.80 | 10.00 | 1.30 | | 4.5 | 2102 |
| SURFACE MINE | 4.60 | 40.30 | 47.80 | CARTER | 11.90 | 67.30 | W211191 | 6.10 | 382323 | 830559 | B | 12270 | 09/01/88 |
| | | | | | | | 4.80 | 6.10 | 8.30 | 1.60 | | 1.5 | 2102 |
| SURFACE MINE | 6.60 | 38.70 | 55.90 | CARTER | 5.40 | 76.50 | W211193 | 0.80 | 382324 | 830607 | B | 13480 | 09/01/88 |
| | | | | | | | 5.10 | 0.80 | 10.50 | 1.70 | | 1.5 | 2804 |
| SURFACE MINE | 7.60 | 38.20 | 48.40 | BOYD | 13.40 | 67.90 | W207816 | 2.40 | 382328 | 824417 | B | 12320 | 09/01/88 |
| | | | | | | | 4.80 | 2.40 | 10.10 | 1.40 | | 2.5 | 2579 |
| ROAD CUT | 7.70 | 43.70 | 49.70 | BOYD | 6.60 | 73.90 | W208199 | 2.80 | 382439 | 824013 | B | 13250 | 09/01/88 |
| | | | | | | | 5.10 | 2.80 | 10.10 | 1.50 | | 3.0 | 2624 |
| ROAD CUT | 5.20 | 30.20 | 39.10 | BOYD | 30.70 | 54.30 | W207458 | 2.70 | 382447 | 824234 | B | 9780 | 09/01/88 |
| | | | | | | | 3.80 | 2.70 | 7.30 | 1.20 | | 1.0 | 2804 |
| SURFACE MINE | 10.10 | 40.00 | 55.20 | GREENUP | 4.80 | 72.80 | W207107 | 0.90 | 382501 | 825108 | B | 13440 | 09/01/88 |
| | | | | | | | 4.90 | 0.90 | 14.90 | 1.70 | | 1.0 | 2804 |
| SURFACE MINE | 4.70 | 38.80 | 38.60 | GREENUP | 22.60 | 59.80 | W207106 | 3.70 | 382510 | 825107 | B | 10910 | 09/01/88 |
| | | | | | | | 4.50 | 3.70 | 8.20 | 1.20 | | 2.5 | 2471 |

Coal Field Information Printout for: KY - Kentucky

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carlbn | Hydrog'i | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank Hardgrove | Htg Val Free Swell | Last Chg Hemi Temp |
|--------------|----------|-----------|----------|---------|-------|--------|----------|--------|--------------------|-----------------------|-------------------|-----------------------|-----------------------|
| SURFACE MINE | 5.90 | 41.70 | 44.60 | GREENUP | 13.70 | 66.20 | W207108 | 4.90 | 382548 8.00 | 825437 1.40 | B | 12300 1.0 | 09/01/88 2003 |
| ROAD CUT | 5.20 | 46.30 | 46.90 | GREENUP | 6.80 | 74.20 | W207862 | 5.70 | 382839 9.80 | 825208 1.50 | B | 13520 3.0 | 09/01/88 2039 |
| SURFACE MINE | 6.00 | 33.50 | 51.10 | GREENUP | 15.40 | 68.10 | W208434 | 4.60 | 383014 9.50 | 824055 1.50 | B | 11960 1.5 | 09/01/88 2804 |

Coal Field Information Printout for

MD - Maryland

Coal Field Information Printout for: MD - Maryland

| Location | Moisture | Volatiles | Fxd Crbn | Ash | County | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------------------------|----------|-----------|----------|-------|----------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| BUFFALO COAL CO NO 240 | 1.10 | 18.50 | 65.00 | 16.50 | GARRETT | 73.70 | 4.20 | 1.20 | 391833 | 792340 | B | 12830 | 09/01/88 |
| | | | | | | | | | 3.60 | 0.80 | | 8.0 | 2912 |
| BUFFALO COAL CO NO 240 | 3.50 | 20.40 | 64.70 | 14.90 | GARRETT | 72.70 | 3.90 | 0.40 | 391854 | 792315 | B | 12500 | 09/01/88 |
| | | | | | | | | | 6.50 | 1.60 | | 1.5 | 2912 |
| GRAFTON COAL CO NO 173 | 0.70 | 20.40 | 68.80 | 10.80 | GARRETT | 78.20 | 4.40 | 2.70 | 392209 | 791642 | B | 13740 | 09/01/88 |
| | | | | | | | | | 2.50 | 1.40 | | 9.0 | 2183 |
| GRAFTON COAL CO NO 211 | 1.00 | 16.90 | 68.30 | 14.80 | GARRETT | 75.70 | 4.00 | 1.00 | 392215 | 791722 | B | 13090 | 09/01/88 |
| | | | | | | | | | 3.10 | 1.40 | | 7.5 | 2786 |
| YIOGH TREE FARM NO 260 | 2.00 | 22.40 | 69.20 | 8.40 | GARRETT | 79.00 | 4.50 | 0.70 | 392406 | 792702 | B | 13750 | 09/01/88 |
| | | | | | | | | | 6.20 | 1.20 | | 3.8 | 2912 |
| ALLEGHENY MINING NO 255 | | | | | GARRETT | | W188872 | | 392520 | 792558 | B | 11470 | 09/01/88 |
| | 2.10 | 25.00 | 53.80 | 21.20 | | 65.90 | 4.20 | 0.50 | 7.10 | 1.10 | | 1.0 | 2768 |
| LAOC COAL CO NO 250 | 0.90 | 21.10 | 56.50 | 22.40 | GARRETT | 65.60 | 4.00 | 4.40 | 392750 | 792432 | B | 11640 | 09/01/88 |
| | | | | | | | | | 2.40 | 1.20 | | 9.0 | 2129 |
| BESSERMER IRON&COAL NO 196 | | | | | ALLEGANY | | W189013 | | 393008 | 790114 | B | 14310 | 09/01/88 |
| | 1.40 | 19.30 | 73.90 | 6.80 | | 82.20 | 4.40 | 1.30 | 3.60 | 1.70 | | 7.5 | 2912 |
| UNION COAL CO NO 15 | 1.50 | 21.50 | 65.50 | 13.00 | ALLEGANY | 75.70 | 4.00 | 1.00 | 393116 | 785935 | B | 12950 | 09/01/88 |
| | | | | | | | | | 4.70 | 1.60 | | 1.5 | 2408 |
| | 2.90 | 21.30 | 57.20 | 21.50 | GARRETT | 67.50 | 4.00 | 2.30 | 393434 | 791730 | B | 11940 | 09/01/88 |
| | | | | | | | | | 3.60 | 1.10 | | 8.0 | 2705 |
| | 1.30 | 23.60 | 67.60 | 8.80 | GARRETT | 79.60 | 4.80 | 2.60 | 393522 | 791713 | B | 14220 | 09/01/88 |
| | | | | | | | | | 2.80 | 1.40 | | 9.0 | 2363 |
| BURNHAM COAL CO NO 238 | | | | | GARRETT | | W188877 | | 393522 | 791721 | B | 11800 | 09/01/88 |
| | 0.70 | 22.50 | 54.60 | 22.90 | | 66.10 | 4.10 | 3.60 | 2.30 | 1.00 | | 4.0 | 2156 |
| WINNER BROS COAL CO NO 202 | | | | | ALLEGANY | | W189016 | | 393556 | 785635 | B | 14610 | 09/01/88 |
| | 2.10 | 19.70 | 74.50 | 5.80 | | 83.50 | 4.50 | 1.00 | 3.40 | 1.80 | | 9.0 | 2777 |
| WINNER BROS COAL CO NO 207 | | | | | ALLEGANY | | W189011 | | 393615 | 785529 | B | 11050 | 09/01/88 |
| | 1.40 | 15.90 | 58.00 | 26.10 | | 63.40 | 3.60 | 2.10 | 3.40 | 1.40 | | 4.0 | 2579 |
| | 1.30 | 25.70 | 66.60 | 7.70 | GARRETT | 81.50 | 4.80 | 1.30 | 393628 | 791609 | B | 14500 | 09/01/88 |
| | | | | | | | | | 3.20 | 1.50 | | 9.0 | 2804 |
| WINNER BROS COAL CO NO 207 | | | | | ALLEGANY | | W189015 | | 393635 | 785607 | B | 13500 | 09/01/88 |
| | 1.30 | 20.40 | 66.80 | 12.80 | | 77.00 | 4.30 | 0.80 | 3.40 | 1.70 | | 9.0 | 2912 |

Coal Field Information Printout for: MD - Maryland

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Free Swell | Htg Val | Last Chg |
|----------|----------|-----------|----------|---------|-------|--------|----------|--------|----------|-----------|------|------------|---------|----------|
| | | | | GARRETT | 8.30 | 79.60 | 4.80 | 2.80 | 393733 | 792735 | B | 14270 | 9.0 | 09/01/88 |
| | 1.50 | 27.60 | 64.10 | | | | | | 3.10 | 1.40 | | | | 2048 |
| | | | | GARRETT | 13.90 | 75.80 | 4.50 | 1.40 | 394009 | 791119 | B | 13280 | 9.0 | 09/01/88 |
| | | | | | | | | | 3.10 | 1.30 | | | | 2759 |
| | | | | GARRETT | 25.10 | 64.10 | 4.10 | 2.50 | 394027 | 792441 | B | 11300 | 7.5 | 09/01/88 |
| | | | | | | | | | 2.80 | 1.40 | | | | 2408 |

Coal Field Information Printout for

MI - Michigan

Coal Field Information Printout for: MI - Michigan

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------|----------|-----------|----------|--------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| 13.30 | 41.90 | 56.10 | 2.00 | INGHAM | 80.10 | 5.30 | 1.20 | 424053 | 841614 | 1.70 | B | 14310 | 09/01/88 |
| | | | | | | | | | 9.70 | | | 0.0 | 0 |
| 10.30 | 40.20 | 56.90 | 2.90 | INGHAM | 78.00 | 5.20 | 1.30 | 424056 | 841614 | 1.60 | B | 14080 | 09/01/88 |
| | | | | | | | | | 11.00 | | | 0.0 | 0 |
| 18.60 | 40.90 | 52.00 | 7.10 | INGHAM | 73.40 | 5.00 | 1.70 | 424456 | 844546 | 1.40 | B | 13100 | 09/01/88 |
| | | | | | | | | | 11.40 | | | 0.0 | 0 |

Coal Field Information Printout for

MO - Missouri

Coal Field Information Printout for: MO - Missouri

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------|----------|-----------|----------|----------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| | 2.30 | 36.00 | 42.50 | BARTON | 21.50 | 65.20 | 4.50 | 3.60 | 371312 | 943530 | B | 11720 | 09/01/88 |
| | | | | | | | | | 4.30 | 0.90 | | 5.5 | 2408 |
| | 2.50 | 33.70 | 49.90 | BARTON | 16.40 | 66.90 | 4.60 | 7.50 | 372310 | 943420 | B | 12440 | 09/01/88 |
| | | | | | | | | | 3.40 | 1.20 | | 9.0 | 2408 |
| | 2.40 | 32.40 | 49.30 | BARTON | 18.30 | 65.50 | 4.50 | 6.40 | 372310 | 943424 | B | 12140 | 09/01/88 |
| | | | | | | | | | 4.20 | 1.10 | | 8.5 | 2534 |
| | 2.90 | 33.40 | 50.90 | BARTON | 15.70 | 68.40 | 4.70 | 5.30 | 372312 | 943424 | B | 12580 | 09/01/88 |
| | | | | | | | | | 4.80 | 1.10 | | 7.5 | 2255 |
| | 2.30 | 36.00 | 42.50 | BARTON | 21.50 | 65.20 | 4.50 | 3.60 | 372312 | 943528 | B | 11720 | 09/01/88 |
| | | | | | | | | | 4.30 | 0.90 | | 5.5 | 2408 |
| | 1.90 | 36.20 | 49.20 | BARTON | 14.60 | 70.60 | 4.80 | 4.60 | 372315 | 943515 | B | 12800 | 09/01/88 |
| | | | | | | | | | 4.30 | 1.10 | | 8.0 | 2057 |
| | 6.20 | 34.90 | 47.40 | VERNON | 17.70 | 65.60 | 4.60 | 5.10 | 374227 | 942904 | B | 11980 | 09/01/88 |
| | | | | | | | | | 5.70 | 1.30 | | 7.0 | 2102 |
| | 3.40 | 36.30 | 46.10 | VERNON | 17.60 | 67.60 | 4.50 | 3.10 | 374519 | 943005 | B | 12020 | 09/01/88 |
| | | | | | | | | | 6.10 | 1.10 | | 8.0 | 2066 |
| | 3.40 | 36.30 | 46.10 | VERNON | 17.60 | 67.60 | 4.50 | 3.10 | 374519 | 943006 | B | 12020 | 09/01/88 |
| | | | | | | | | | 6.10 | 1.10 | | 8.0 | 2066 |
| | 3.90 | 38.70 | 44.40 | VERNON | 16.90 | 67.30 | 4.60 | 5.60 | 374520 | 942936 | B | 12340 | 09/01/88 |
| | | | | | | | | | 4.50 | 1.10 | | 7.5 | 1958 |
| | 3.90 | 38.70 | 44.40 | VERNON | 16.90 | 67.30 | 4.60 | 5.60 | 374520 | 942940 | B | 12340 | 09/01/88 |
| | | | | | | | | | 4.50 | 1.10 | | 7.5 | 1958 |
| | 4.00 | 37.10 | 45.30 | VERNON | 17.60 | 66.60 | 4.60 | 5.30 | 374555 | 943634 | B | 12010 | 09/01/88 |
| | | | | | | | | | 4.70 | 1.20 | | 6.0 | 2309 |
| | 5.30 | 37.70 | 44.10 | VERNON | 18.20 | 67.30 | 4.70 | 4.60 | 374558 | 943637 | B | 12270 | 09/01/88 |
| | | | | | | | | | 4.00 | 1.20 | | 8.0 | 2264 |
| | 5.80 | 33.00 | 43.40 | ST CLAIR | 23.60 | 56.70 | 4.10 | 10.40 | 381155 | 934918 | B | 10700 | 09/01/88 |
| | | | | | | | | | 4.10 | 1.10 | | 4.5 | 2138 |
| | 8.70 | 35.40 | 51.60 | HENRY | 13.00 | 71.20 | 4.70 | 3.40 | 381420 | 935708 | B | 12820 | 09/01/88 |
| | | | | | | | | | 6.60 | 1.10 | | 5.5 | 2255 |
| | 7.70 | 34.80 | 48.60 | HENRY | 16.60 | 67.40 | 4.60 | 3.80 | 381420 | 935710 | B | 12240 | 09/01/88 |
| | | | | | | | | | 6.50 | 1.10 | | 5.5 | 2273 |

Coal Field Information Printout for: MO - Missouri

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------------------------|----------|-----------|----------|--------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | Ash | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| 8.20 | 32.40 | 46.50 | 21.10 | HENRY | 59.00 | 4.00 | 10.20 | 381422 | 935709 | B | 10880 | 09/01/88 |
| | | | | | | | | 4.70 | 1.00 | | 1.0 | 2129 |
| 7.70 | 33.50 | 47.30 | 19.20 | HENRY | 61.20 | 4.20 | 9.50 | 381422 | 935710 | B | 11350 | 09/01/88 |
| | | | | | | | | 4.80 | 1.10 | | 1.0 | 2471 |
| POWER MINE | | | | HENRY | 63.70 | 4.40 | 9.10 | 381434 | 935743 | B | 11660 | 09/01/88 |
| 7.30 | 40.20 | 41.60 | 18.20 | | | | | 3.60 | 1.00 | | 0.0 | 0 |
| POWER MINE | | | | HENRY | 70.80 | 4.80 | 2.90 | 381437 | 935754 | B | 12860 | 09/01/88 |
| 7.80 | 43.20 | 44.50 | 12.30 | | | | | 8.10 | 1.10 | | 0.0 | 0 |
| POWER MINE | | | | HENRY | 61.70 | 4.20 | 3.50 | 381440 | 935809 | B | 10780 | 09/01/88 |
| 6.60 | 43.50 | 36.60 | 19.90 | | | | | 9.70 | 1.00 | | 0.0 | 0 |
| 7.00 | 32.90 | 43.00 | 24.10 | BATES | 59.90 | 4.10 | 4.80 | 381744 | 943627 | B | 10880 | 09/01/88 |
| | | | | | | | | 5.90 | 1.20 | | 3.5 | 2111 |
| 6.40 | 33.50 | 41.60 | 24.90 | BATES | 61.10 | 4.00 | 4.30 | 381745 | 943627 | B | 10870 | 09/01/88 |
| | | | | | | | | 4.50 | 1.20 | | 2.5 | 2201 |
| MIDWAY MINE | | | | BATES | 63.20 | 4.30 | 5.50 | 381855 | 94340 | B | 11450 | 09/01/88 |
| 7.10 | 37.70 | 42.40 | 19.90 | | | | | 6.00 | 1.10 | | 4.0 | 2039 |
| MIDWAY MINE | | | | BATES | 63.20 | 4.30 | 5.50 | 381858 | 943430 | B | 11450 | 09/01/88 |
| 7.10 | 37.70 | 42.40 | 19.90 | | | | | 6.00 | 1.10 | | 4.0 | 2039 |
| POWER MINE | | | | HENRY | 71.80 | 5.00 | 6.30 | 382210 | 935504 | B | 13220 | 09/01/88 |
| 10.50 | 42.50 | 49.60 | 7.90 | | | | | 7.80 | 1.20 | | 0.0 | 0 |
| 10.00 | 35.80 | 46.00 | 18.20 | HENRY | 63.90 | 4.30 | 4.00 | 382249 | 935640 | B | 11370 | 09/01/88 |
| | | | | | | | | 8.60 | 1.00 | | 4.0 | 2246 |
| 9.10 | 32.80 | 43.00 | 24.20 | HENRY | 57.30 | 3.80 | 8.10 | 382250 | 935640 | B | 10360 | 09/01/88 |
| | | | | | | | | 5.70 | 0.90 | | 1.0 | 2021 |
| 8.80 | 40.40 | 53.50 | 6.10 | HENRY | 73.50 | 5.20 | 4.40 | 382625 | 934217 | B | 13370 | 09/01/88 |
| | | | | | | | | 9.50 | 1.30 | | 3.0 | 2183 |
| 8.90 | 39.70 | 51.30 | 9.00 | HENRY | 70.40 | 5.00 | 6.00 | 382625 | 934219 | B | 12870 | 09/01/88 |
| | | | | | | | | 8.40 | 1.20 | | 1.5 | 2111 |
| TEBO MINE, PEABODY COAL CO | | | | HENRY | 70.50 | 4.90 | 6.00 | 382640 | 934138 | B | 12950 | 09/01/88 |
| 9.90 | 43.40 | 47.30 | 9.30 | | | | | 8.10 | 1.20 | | 0.0 | 0 |
| 10.20 | 34.00 | 48.00 | 18.00 | HOWARD | 63.90 | 4.30 | 5.50 | 391147 | 922955 | B | 11460 | 09/01/88 |
| | | | | | | | | 7.30 | 1.00 | | 1.0 | 2309 |

Coal Field Information Printout for: MO - Missouri

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|---------------|----------|-----------|----------|----------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | Ash | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| 8.30 | 37.30 | 47.10 | 15.60 | HOWARD | 66.30 | 4.30 | 5.50 | 391152 | 922855 | B | 11960 | 09/01/88 |
| | | | | | | | | 7.20 | 1.10 | | 1.0 | 2039 |
| 8.80 | 31.70 | 47.90 | 20.40 | HOWARD | 60.10 | 4.20 | 6.60 | 391420 | 923115 | B | 10900 | 09/01/88 |
| | | | | | | | | 7.70 | 1.00 | | 1.0 | 2129 |
| 11.20 | 33.80 | 54.60 | 11.60 | HOWARD | 58.10 | 4.60 | 6.10 | 391754 | 922647 | B | 12400 | 09/01/88 |
| | | | | | | | | 8.50 | 1.10 | | 1.0 | 2417 |
| 7.70 | 40.70 | 43.80 | 15.50 | AUDRAIN | 67.00 | 4.50 | 4.60 | 391950 | 914702 | B | 12080 | 09/01/88 |
| | | | | | | | | 7.40 | 1.00 | | 3.0 | 2201 |
| 10.50 | 39.80 | 45.00 | 15.20 | RANDOLPH | 55.40 | 4.50 | 5.90 | 392017 | 923518 | B | 11770 | 09/01/88 |
| | | | | | | | | 7.90 | 1.10 | | 0.0 | 0 |
| 11.20 | 38.70 | 48.80 | 12.50 | RANDOLPH | 66.40 | 4.70 | 6.00 | 392031 | 923452 | B | 12110 | 09/01/88 |
| | | | | | | | | 9.30 | 1.10 | | 1.0 | 2030 |
| 13.30 | 36.60 | 48.10 | 15.30 | RANDOLPH | 52.90 | 4.40 | 6.50 | 392032 | 923452 | B | 11270 | 09/01/88 |
| | | | | | | | | 9.90 | 1.00 | | 1.0 | 2066 |
| BEE VEER MINE | | | | | | | | | | | | |
| 6.60 | 42.80 | 44.60 | 12.60 | RANDOLPH | 69.10 | 4.80 | 4.80 | 393122 | 923924 | B | 12370 | 09/01/88 |
| | | | | | | | | 7.60 | 1.10 | | 0.0 | 0 |
| 9.70 | 34.70 | 48.60 | 16.70 | RANDOLPH | 52.40 | 4.20 | 8.20 | 393123 | 924015 | B | 11420 | 09/01/88 |
| | | | | | | | | 7.50 | 1.00 | | 1.0 | 2012 |
| 9.30 | 46.20 | 43.40 | 10.40 | MACON | 70.60 | 5.00 | 4.20 | 393827 | 923007 | B | 12760 | 09/01/88 |
| | | | | | | | | 8.70 | 1.10 | | 0.0 | 0 |
| BEE VEER MINE | | | | | | | | | | | | |
| 11.70 | 42.70 | 45.40 | 11.90 | MACON | 69.10 | 4.80 | 5.30 | 393945 | 923004 | B | 12380 | 09/01/88 |
| | | | | | | | | 7.80 | 1.10 | | 2.0 | 2012 |
| BEE VEER MINE | | | | | | | | | | | | |
| 11.70 | 42.70 | 45.40 | 11.90 | MACON | 69.10 | 4.80 | 5.30 | 393946 | 923004 | B | 12380 | 09/01/88 |
| | | | | | | | | 7.80 | 1.10 | | 0.0 | 0 |
| 10.70 | 40.00 | 50.60 | 9.40 | MACON | 70.50 | 4.90 | 5.50 | 394016 | 922943 | B | 12820 | 09/01/88 |
| | | | | | | | | 8.50 | 1.20 | | 5.0 | 1994 |
| 10.60 | 41.90 | 46.80 | 11.30 | MACON | 70.20 | 4.90 | 3.80 | 394017 | 922943 | B | 12630 | 09/01/88 |
| | | | | | | | | 8.60 | 1.20 | | 3.5 | 2183 |
| 12.70 | 35.30 | 48.30 | 16.40 | MACON | 63.20 | 4.50 | 4.60 | 394017 | 922945 | B | 11390 | 09/01/88 |
| | | | | | | | | 10.00 | 1.30 | | 1.0 | 2066 |
| 11.10 | 35.80 | 47.70 | 16.50 | MACON | 62.70 | 4.30 | 6.20 | 394018 | 922945 | B | 11350 | 09/01/88 |
| | | | | | | | | 9.10 | 1.20 | | 1.0 | 2021 |

Coal Field Information Printout for: MO - Missouri

| Location Moisture | Volatiles | Fxd Crbn | County Ash | Carbua | Code Number | | Latitude Oxygen | Longitude Nitrogen | Rank Hardgrove | Htg Val Free Swell | Last Chg Hemi Temp |
|----------------------|-----------|----------|---------------|--------|-------------|--------|--------------------|-----------------------|-------------------|-----------------------|-----------------------|
| | | | | | Hydrogen | Sulfur | | | | | |
| 14.70 | 32.20 | 46.00 | ADAIR | 57.10 | D182624 | 9.10 | 401302 | 923923 | B | 10420 | 09/01/88 |
| | | | | | 3.80 | | 7.30 | 0.90 | | 0.0 | 2075 |
| 18.20 | 42.50 | 45.30 | SULLIVAN | 69.30 | D172323 | 3.90 | 401922 | 925147 | B | 12470 | 09/01/88 |
| | | | | | 4.90 | | 8.50 | 1.20 | | 0.0 | 0 |
| 15.50 | 42.50 | 40.70 | PUTNAM | 63.90 | D172329 | 3.70 | 402509 | 925328 | B | 11550 | 09/01/88 |
| | | | | | 4.50 | | 10.00 | 1.10 | | 0.0 | 0 |
| 17.00 | 44.00 | 42.50 | PUTNAM | 70.20 | D172328 | 3.40 | 402740 | 924440 | B | 12270 | 09/01/88 |
| | | | | | 4.60 | | 7.10 | 1.20 | | 0.0 | 0 |
| 16.00 | 45.40 | 43.10 | PUTNAM | 70.50 | D172327 | 3.90 | 402746 | 924440 | B | 12370 | 09/01/88 |
| | | | | | 4.80 | | 8.10 | 1.20 | | 0.0 | 0 |

Coal Field Information Printout for

MS - Mississippi

Coal Field Information Printout for: MS - Mississippi

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------|----------|-----------|----------|------------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| | 49.60 | 49.60 | 38.30 | LAUDERDALE | 12.10 | 55.00 | 3.90 | 4.20 | 322401 | 883339 | L | 9110 | 09/01/88 |
| | | | | | | | | | 23.80 | 1.00 | | 0.0 | 0 |
| | 51.30 | 49.50 | 44.80 | LAUDERDALE | 5.70 | 62.70 | 4.30 | 2.50 | 322421 | 883243 | L | 10550 | 09/01/88 |
| | | | | | | | | | 23.60 | 1.20 | | 0.0 | 0 |
| | 44.80 | 42.70 | 33.70 | SCOTT | 23.60 | 53.40 | 4.20 | 2.40 | 322855 | 892300 | L | 9260 | 09/01/88 |
| | | | | | | | | | 15.70 | 0.70 | | 0.0 | 0 |
| | 16.40 | 36.80 | 32.00 | KEMPER | 31.20 | 48.20 | 3.60 | 0.70 | 323610 | 883238 | L | 8110 | 09/01/88 |
| | | | | | | | | | 15.20 | 1.10 | | 0.0 | 2678 |
| | 46.10 | 39.90 | 29.40 | NESHOBA | 30.70 | 46.40 | 3.50 | 6.90 | 324631 | 891256 | L | 8260 | 09/01/88 |
| | | | | | | | | | 11.50 | 1.00 | | 0.0 | 2174 |
| | 47.00 | 48.60 | 32.70 | NESHOBA | 18.70 | 56.20 | 3.80 | 6.10 | 324804 | 891308 | L | 9800 | 09/01/88 |
| | | | | | | | | | 13.80 | 1.40 | | 0.0 | 2210 |
| | 48.10 | 39.30 | 36.80 | NESHOBA | 33.90 | 52.00 | 3.60 | 1.10 | 325017 | 885515 | L | 8880 | 09/01/88 |
| | | | | | | | | | 18.30 | 1.10 | | 0.0 | 2804 |

Coal Field Information Printout for

MT - Montana

Coal Field Information Printout for: MT - Montana

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------------------------|----------|-----------|----------|--------------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| DECKER MINE, TIPPLE SAMPLE | 20.60 | 39.80 | 54.70 | BIG HORN | 5.50 | 72.00 | 4.90 | 0.60 | 450000 | 1064500 | SB | 12440 | 09/01/88 |
| | | | | | | | | | 15.90 | 1.10 | | 0.0 | 0 |
| DECKER MINE | 19.60 | 46.60 | 47.80 | BIG HORN | 5.60 | 71.10 | 5.00 | 0.50 | 450217 | 1064900 | SB | 12250 | 09/01/88 |
| | | | | | | | | | 16.60 | 1.20 | | 0.0 | 2201 |
| DECKER MINE | 22.00 | 40.40 | 54.90 | BIG HORN | 4.70 | 72.00 | 4.90 | 0.50 | 450242 | 1064907 | SB | 12460 | 09/01/88 |
| | | | | | | | | | 16.60 | 1.30 | | 0.0 | 2219 |
| DECKER MINE | 22.30 | 40.80 | 54.70 | BIG HORN | 4.50 | 72.20 | 5.20 | 0.40 | 450312 | 1065030 | SB | 12500 | 09/01/88 |
| | | | | | | | | | 16.70 | 1.00 | | 0.0 | 2219 |
| DECKER MINE | 23.20 | 39.30 | 54.50 | BIG HORN | 6.20 | 69.60 | 4.70 | 1.40 | 450318 | 1065018 | SB | 12090 | 09/01/88 |
| | | | | | | | | | 16.90 | 1.20 | | 0.0 | 2111 |
| DECKER MINE | 22.10 | 41.80 | 53.60 | BIG HORN | 4.60 | 72.50 | 5.10 | 0.40 | 450321 | 1065018 | SB | 12540 | 09/01/88 |
| | | | | | | | | | 16.40 | 1.00 | | 0.0 | 2273 |
| DECKER MINE | 22.60 | 39.50 | 51.30 | BIG HORN | 9.20 | 67.80 | 4.60 | 1.40 | 450323 | 1065011 | SB | 11740 | 09/01/88 |
| | | | | | | | | | 16.00 | 1.00 | | 0.0 | 2147 |
| DECKER MINE | 22.30 | 40.80 | 54.40 | BIG HORN | 4.80 | 72.30 | 5.00 | 0.50 | 450324 | 1065011 | SB | 12520 | 09/01/88 |
| | | | | | | | | | 16.40 | 1.00 | | 0.0 | 2219 |
| DECKER MINE | 22.60 | 39.80 | 54.10 | BIG HORN | 6.10 | 70.20 | 4.60 | 1.30 | 450330 | 1065002 | SB | 12090 | 09/01/88 |
| | | | | | | | | | 16.80 | 1.00 | | 0.0 | 2354 |
| HOLE M75-38 | 35.20 | 39.50 | 51.40 | POWDER RIVER | 9.10 | 67.00 | 4.10 | 0.50 | 450340 | 1060749 | SB | 11180 | 09/01/88 |
| | | | | | | | | | 17.90 | 1.40 | | 0.0 | 2147 |
| BEAR CR EMRIA | 32.70 | 42.80 | 47.70 | POWDER RIVER | 9.50 | 65.60 | 4.40 | 1.00 | 450344 | 1061036 | SB | 11250 | 09/01/88 |
| | | | | | | | | | 18.20 | 1.30 | | 0.0 | 2057 |
| BEAR CR EMRIA | 30.80 | 41.20 | 50.60 | POWDER RIVER | 8.20 | 68.00 | 4.60 | 0.40 | 450400 | 1061050 | SB | 11500 | 09/01/88 |
| | | | | | | | | | 17.40 | 1.40 | | 0.0 | 2111 |
| BEAR CR EMRIA | 30.60 | 42.10 | 52.30 | POWDER RIVER | 5.60 | 67.50 | 4.90 | 0.30 | 450401 | 1060947 | SB | 11330 | 09/01/88 |
| | | | | | | | | | 20.50 | 1.20 | | 0.0 | 2471 |
| OUTCROP | 36.30 | 47.10 | 46.00 | POWDER RIVER | 6.90 | 60.80 | 3.20 | 0.80 | 450401 | 1062430 | SB | 9200 | 09/01/88 |
| | | | | | | | | | 26.90 | 1.40 | | 0.0 | 2453 |
| BEAR CR EMRIA | 33.00 | 40.30 | 52.20 | POWDER RIVER | 7.50 | 67.80 | 4.50 | 0.40 | 450430 | 1061207 | SB | 11490 | 09/01/88 |
| | | | | | | | | | 18.30 | 1.50 | | 0.0 | 2111 |
| BEAR CR EMRIA | 37.80 | 40.50 | 44.90 | POWDER RIVER | 14.60 | 62.20 | 4.30 | 1.10 | 450443 | 1061037 | SB | 10420 | 09/01/88 |
| | | | | | | | | | 16.70 | 1.10 | | 0.0 | 2003 |

Coal Field Information Printout for: MT - Montana

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|---------------|----------|-----------|----------|--------------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| BEAR CR EMRIA | 24.00 | 35.40 | 33.40 | POWDER RIVER | 31.20 | 43.70 | 3.50 | 5.70 | 450448 | 1061111 | SB | 7540 | 09/01/88 |
| | | | | | | | | | 15.00 | 0.90 | | 0.0 | 2102 |
| HOLE M75-35 | 32.00 | 41.00 | 51.50 | POWDER RIVER | 7.50 | 66.80 | 4.30 | 0.40 | 450449 | 1060451 | SB | 11200 | 09/01/88 |
| | | | | | | | | | 19.50 | 1.50 | | 0.0 | 2228 |
| BEAR CR EMRIA | 32.50 | 42.70 | 48.90 | POWDER RIVER | 8.40 | 67.10 | 4.40 | 1.20 | 450513 | 1061113 | SB | 11400 | 09/01/88 |
| | | | | | | | | | 17.60 | 1.30 | | 0.0 | 2228 |
| BEAR CR EMRIA | 32.10 | 42.90 | 43.80 | POWDER RIVER | 13.30 | 63.10 | 4.20 | 0.60 | 450527 | 1061055 | SB | 10720 | 09/01/88 |
| | | | | | | | | | 17.30 | 1.50 | | 0.0 | 2111 |
| HOLE M75-33 | 31.50 | 41.60 | 52.90 | POWDER RIVER | 5.50 | 68.90 | 4.50 | 0.30 | 450528 | 1060628 | SB | 11690 | 09/01/88 |
| | | | | | | | | | 19.30 | 1.50 | | 0.0 | 2291 |
| HOLE M75-20 | 31.70 | 40.30 | 53.80 | POWDER RIVER | 5.90 | 68.40 | 4.50 | 0.30 | 450546 | 1061433 | SB | 11610 | 09/01/88 |
| | | | | | | | | | 19.40 | 1.50 | | 0.0 | 2192 |
| BEAR CR EMRIA | 31.90 | 45.40 | 46.40 | POWDER RIVER | 8.20 | 67.00 | 4.60 | 1.20 | 450556 | 1061207 | SB | 11390 | 09/01/88 |
| | | | | | | | | | 17.70 | 1.30 | | 0.0 | 2147 |
| BEAR CR EMRIA | 28.80 | 43.10 | 48.60 | POWDER RIVER | 8.30 | 66.40 | 4.80 | 0.70 | 450604 | 1061211 | SB | 11260 | 09/01/88 |
| | | | | | | | | | 18.50 | 1.30 | | 0.0 | 2156 |
| HOLE M75-18 | 28.90 | 41.90 | 51.90 | POWDER RIVER | 6.20 | 68.80 | 4.90 | 0.40 | 450657 | 1061455 | SB | 11690 | 09/01/88 |
| | | | | | | | | | 18.30 | 1.40 | | 0.0 | 2399 |
| HOLE M75-13 | 29.90 | 40.90 | 52.80 | POWDER RIVER | 6.30 | 68.90 | 4.50 | 0.40 | 450812 | 1061139 | SB | 11650 | 09/01/88 |
| | | | | | | | | | 18.60 | 1.30 | | 0.0 | 2246 |
| HOLE M75-9 | 26.70 | 40.20 | 50.90 | POWDER RIVER | 8.90 | 66.30 | 4.70 | 0.30 | 450827 | 1061402 | SB | 11250 | 09/01/88 |
| | | | | | | | | | 18.60 | 1.20 | | 0.0 | 2057 |
| HOLE M75-16 | 30.40 | 42.00 | 51.70 | POWDER RIVER | 6.30 | 68.60 | 4.50 | 0.60 | 450839 | 1060851 | SB | 11580 | 09/01/88 |
| | | | | | | | | | 18.60 | 1.40 | | 0.0 | 2435 |
| OUTCROP | 32.20 | 47.80 | 41.60 | BIG HORN | 10.60 | 58.90 | 3.30 | 0.40 | 451015 | 1063425 | SB | 8910 | 09/01/88 |
| | | | | | | | | | 25.50 | 1.30 | | 0.0 | 2399 |
| OUTCROP | 38.80 | 47.50 | 42.50 | ROSEBUD | 10.00 | 59.20 | 3.60 | 0.30 | 451200 | 1063420 | SB | 9070 | 09/01/88 |
| | | | | | | | | | 25.80 | 1.10 | | 0.0 | 2516 |
| OUTCROP | 26.20 | 45.70 | 48.70 | POWDER RIVER | 5.60 | 65.30 | 4.20 | 0.70 | 451317 | 1062938 | SB | 10850 | 09/01/88 |
| | | | | | | | | | 22.80 | 1.40 | | 0.0 | 2138 |
| OUTCROP | 34.70 | 46.10 | 43.80 | POWDER RIVER | 10.10 | 59.00 | 3.30 | 0.90 | 451435 | 1062803 | SB | 9050 | 09/01/88 |
| | | | | | | | | | 25.20 | 1.50 | | 0.0 | 2066 |

Coal Field Information Printout for: MT - Montana

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Code Number | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-----------------------------|----------|-----------|----------|--------------|-------|--------|----------|-------------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| OUTCROP | 38.40 | 44.30 | 43.50 | POWDER RIVER | 12.20 | 57.80 | 3.00 | D177821 | 0.80 | 451730 | 1062404 | SB | 8690 | 09/01/88 |
| | | | | | | | | | | 24.90 | 1.30 | | 0.0 | 2084 |
| OUTCROP | 34.20 | 46.50 | 45.30 | POWDER RIVER | 8.20 | 59.40 | 3.20 | D177824 | 0.80 | 451803 | 1062727 | SB | 8950 | 09/01/88 |
| | | | | | | | | | | 26.90 | 1.50 | | 0.0 | 2183 |
| OUTCROP | 26.30 | 42.60 | 52.70 | POWDER RIVER | 4.70 | 68.60 | 4.40 | D177823 | 0.40 | 452036 | 1062819 | SB | 11490 | 09/01/88 |
| | | | | | | | | | | 20.70 | 1.20 | | 0.0 | 1940 |
| OUTCROP | 34.70 | 46.40 | 45.20 | POWDER RIVER | 8.40 | 59.60 | 3.10 | D177822 | 0.80 | 452059 | 1062912 | SB | 9000 | 09/01/88 |
| | | | | | | | | | | 26.70 | 1.40 | | 0.0 | 2156 |
| | | | | | | | | | | | | | | |
| | 26.00 | 43.90 | 46.90 | POWDER RIVER | 9.20 | 65.20 | 4.90 | D171967 | 0.30 | 453050 | 1060830 | SB | 11230 | 09/01/88 |
| | | | | | | | | | | 19.30 | 1.10 | | 0.0 | 0 |
| | | | | | | | | | | | | | | |
| | 35.10 | 40.70 | 48.20 | POWDER RIVER | 11.10 | 66.70 | 4.60 | D170203 | 0.30 | 453140 | 1060922 | SB | 11200 | 09/01/88 |
| | | | | | | | | | | 16.20 | 1.10 | | 0.0 | 0 |
| | | | | | | | | | | | | | | |
| | 26.40 | 39.00 | 53.10 | POWDER RIVER | 7.90 | 69.70 | 4.40 | D169481 | 0.50 | 453149 | 1061013 | SB | 11830 | 09/01/88 |
| | | | | | | | | | | 16.30 | 1.20 | | 0.0 | 0 |
| | | | | | | | | | | | | | | |
| | 16.80 | 49.10 | 38.80 | POWDER RIVER | 12.10 | 58.00 | 4.60 | D169031 | 0.40 | 453159 | 1060936 | SB | 9820 | 09/01/88 |
| | | | | | | | | | | 23.60 | 1.30 | | 0.0 | 0 |
| | | | | | | | | | | | | | | |
| | 29.10 | 42.00 | 50.20 | POWDER RIVER | 7.80 | 68.50 | 4.70 | D169477 | 0.30 | 453234 | 1060821 | SB | 11590 | 09/01/88 |
| | | | | | | | | | | 17.70 | 1.00 | | 0.0 | 0 |
| | | | | | | | | | | | | | | |
| | 16.40 | 36.40 | 52.00 | ROSEBUD | 11.60 | 67.50 | 4.50 | D163187 | 1.10 | 454852 | 1063652 | SB | 11630 | 09/01/88 |
| | | | | | | | | | | 14.30 | 1.00 | | 0.0 | 0 |
| | | | | | | | | | | | | | | |
| | 20.70 | 39.00 | 52.20 | ROSEBUD | 8.80 | 69.60 | 4.80 | D163181 | 0.80 | 454852 | 1063655 | SB | 12120 | 09/01/88 |
| | | | | | | | | | | 15.00 | 1.00 | | 0.0 | 0 |
| | | | | | | | | | | | | | | |
| | 19.80 | 36.80 | 54.00 | ROSEBUD | 9.20 | 69.90 | 4.50 | D163179 | 0.60 | 454856 | 1063655 | SB | 11910 | 09/01/88 |
| | | | | | | | | | | 14.70 | 1.10 | | 0.0 | 0 |
| | | | | | | | | | | | | | | |
| | 25.50 | 36.40 | 50.30 | ROSEBUD | 13.30 | 64.80 | 4.30 | D168919 | 4.20 | 455023 | 1064417 | SB | 11250 | 09/01/88 |
| | | | | | | | | | | 12.50 | 0.90 | | 0.0 | 0 |
| | | | | | | | | | | | | | | |
| | 24.90 | 37.00 | 49.00 | ROSEBUD | 14.00 | 65.30 | 4.40 | D168913 | 2.40 | 455149 | 1063526 | SB | 11230 | 09/01/88 |
| | | | | | | | | | | 13.00 | 0.90 | | 0.0 | 0 |
| | | | | | | | | | | | | | | |
| | 26.40 | 39.30 | 48.30 | ROSEBUD | 12.40 | 66.50 | 4.70 | D168917 | 0.70 | 455207 | 1064230 | SB | 11470 | 09/01/88 |
| | | | | | | | | | | 14.70 | 1.00 | | 0.0 | 0 |
| | | | | | | | | | | | | | | |
| ROSEBUD MINE, TIPPLE SAMPLE | 15.80 | 36.50 | 48.30 | ROSEBUD | 15.20 | 64.80 | 4.40 | D161321 | 4.20 | 455230 | 1063000 | SB | 11080 | 09/01/88 |
| | | | | | | | | | | 10.40 | 1.00 | | 0.0 | 0 |

Coal Field Information Printout for: MT - Montana

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------|----------|-----------|----------|--------------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| | 8.30 | 34.50 | 37.60 | BROADWATER | 27.90 | 47.40 | D166183 | 2.60 | 455230 | 1113000 | B | 7100 | 09/01/88 |
| | | | | | | | | 0.40 | 20.10 | 1.60 | | 0.0 | 0 |
| | 25.50 | 35.60 | 51.20 | ROSEBUD | 13.20 | 62.90 | D168915 | 4.10 | 455427 | 1063544 | SB | 11070 | 09/01/88 |
| | | | | | | | | 5.60 | 13.30 | 0.90 | | 0.0 | 0 |
| | 26.70 | 44.70 | 47.00 | PRAIRIE | 8.30 | 62.50 | D169984 | 4.00 | 464500 | 1054500 | SB | 10110 | 09/01/88 |
| | | | | | | | | 0.50 | 23.60 | 1.10 | | 0.0 | 0 |
| | 3.60 | 31.30 | 61.70 | JUDITH BASIN | 7.00 | 71.80 | D166181 | 3.90 | 464500 | 1095230 | B | 12180 | 09/01/88 |
| | | | | | | | | 2.80 | 13.60 | 0.90 | | 0.0 | 0 |
| | 34.50 | 37.60 | 51.10 | RICHLAND | 11.30 | 63.20 | D165757 | 3.60 | 472230 | 1042150 | L | 10030 | 09/01/88 |
| | | | | | | | | 0.30 | 20.50 | 1.10 | | 0.0 | 0 |
| | 36.40 | 37.70 | 47.20 | RICHLAND | 15.10 | 60.00 | D165763 | 4.00 | 472400 | 1042130 | L | 9620 | 09/01/88 |
| | | | | | | | | 0.50 | 19.30 | 1.10 | | 0.0 | 0 |
| | 15.80 | 38.40 | 27.30 | MCCONE | 34.30 | 41.70 | D178789 | 2.40 | 473258 | 1061212 | SB | 6120 | 09/01/88 |
| | | | | | | | | 1.50 | 19.10 | 1.00 | | 0.0 | 2300 |
| | 23.60 | 39.70 | 36.10 | GARFIELD | 24.20 | 50.20 | D178780 | 3.00 | 473431 | 1061725 | SB | 7640 | 09/01/88 |
| | | | | | | | | 0.70 | 21.00 | 0.90 | | 0.0 | 2057 |

Coal Field Information Printout for

ND - North Dakota

Coal Field Information Printout for: ND - North Dakota

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|---------------|----------|-----------|----------|---------------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| | 41.50 | 53.40 | 30.90 | BOWMAN | 15.70 | 50.60 | 3.10 | 2.70 | 460000 | 1030000 | L | 7560 | 09/01/88 |
| | | | | | | | | | 26.70 | 1.20 | | 0.0 | 0 |
| PEERLESS MINE | 45.00 | 44.40 | 47.60 | BOWMAN | 8.00 | 64.80 | 4.50 | 1.30 | 461049 | 1030205 | L | 10930 | 09/01/88 |
| | | | | | | | | | 20.50 | 0.90 | | 0.0 | 0 |
| PEERLESS MINE | 44.60 | 44.00 | 48.80 | BOWMAN | 7.20 | 65.50 | 4.60 | 1.30 | 461050 | 1030203 | L | 10990 | 09/01/88 |
| | | | | | | | | | 20.50 | 0.90 | | 0.0 | 0 |
| PEERLESS MINE | 42.20 | 44.10 | 44.80 | BOWMAN | 11.10 | 63.30 | 4.50 | 1.00 | 461051 | 1030201 | L | 10690 | 09/01/88 |
| | | | | | | | | | 19.40 | 0.70 | | 0.0 | 0 |
| PEERLESS MINE | 37.50 | 48.10 | 38.90 | BOWMAN | 13.00 | 62.80 | 4.90 | 1.60 | 461051 | 1030202 | L | 10820 | 09/01/88 |
| | | | | | | | | | 16.70 | 1.00 | | 0.0 | 0 |
| PEERLESS MINE | 42.30 | 43.30 | 44.40 | BOWMAN | 12.30 | 61.70 | 4.50 | 3.10 | 461051 | 1030205 | L | 10540 | 09/01/88 |
| | | | | | | | | | 17.70 | 0.70 | | 0.0 | 0 |
| PEERLESS MINE | 42.70 | 47.10 | 42.10 | BOWMAN | 10.80 | 64.00 | 4.80 | 1.60 | 461100 | 1030205 | L | 11030 | 09/01/88 |
| | | | | | | | | | 17.90 | 0.90 | | 0.0 | 0 |
| PEERLESS MINE | 46.20 | 46.30 | 43.50 | BOWMAN | 10.20 | 62.90 | 4.20 | 1.70 | 461102 | 1030201 | L | 10370 | 09/01/88 |
| | | | | | | | | | 20.30 | 0.70 | | 0.0 | 0 |
| PEERLESS MINE | 36.50 | 42.70 | 44.10 | BOWMAN | 13.20 | 60.80 | 4.00 | 4.60 | 461104 | 1030205 | L | 10310 | 09/01/88 |
| | | | | | | | | | 16.60 | 0.80 | | 0.0 | 0 |
| | 29.50 | 37.90 | 35.00 | ADAMS | 27.10 | 49.60 | 3.60 | 3.40 | 461206 | 1020337 | L | 8300 | 09/01/88 |
| | | | | | | | | | 15.60 | 0.70 | | 0.0 | 2003 |
| | 36.80 | 39.10 | 31.80 | HETTINGER | 29.10 | 47.70 | 3.50 | 1.90 | 461405 | 1022100 | L | 7720 | 09/01/88 |
| | | | | | | | | | 16.90 | 0.90 | | 0.0 | 2228 |
| | 35.50 | 41.90 | 37.20 | GRANT | 20.90 | 55.80 | 4.10 | 1.60 | 462124 | 1014143 | L | 9370 | 09/01/88 |
| | | | | | | | | | 16.70 | 0.90 | | 0.0 | 2147 |
| | 35.40 | 42.70 | 44.10 | GRANT | 13.20 | 61.60 | 4.30 | 2.30 | 462337 | 1015749 | L | 10440 | 09/01/88 |
| | | | | | | | | | 17.10 | 1.50 | | 0.0 | 2102 |
| | 41.40 | 39.40 | 39.10 | HETTINGER | 21.50 | 54.70 | 4.30 | 3.10 | 462630 | 1025256 | L | 9480 | 09/01/88 |
| | | | | | | | | | 15.40 | 1.00 | | 0.0 | 2003 |
| | 37.20 | 42.50 | 43.60 | HETTINGER | 13.90 | 61.70 | 4.20 | 3.00 | 462633 | 1023723 | L | 10640 | 09/01/88 |
| | | | | | | | | | 16.10 | 1.10 | | 0.0 | 2111 |
| | 39.90 | 43.90 | 41.60 | GOLDEN VALLEY | 14.50 | 57.60 | 4.30 | 1.00 | 464632 | 1040050 | L | 9780 | 09/01/88 |
| | | | | | | | | | 21.90 | 0.70 | | 0.0 | 2183 |

Coal Field Information Printout for: ND - North Dakota

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Code Number | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-------------|----------|-----------|----------|---------------|-------|--------|----------|-------------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| 34.30 | 34.90 | 33.30 | 33.30 | GOLDEN VALLEY | 31.80 | 46.60 | 3.20 | D196627 | 4.90 | 464713 | 1040120 | L | 7610 | 09/01/88 |
| | | | | | | | | | | 12.70 | 0.80 | | 0.0 | 2120 |
| 43.40 | 39.20 | 40.00 | 40.00 | GOLDEN VALLEY | 20.80 | 54.40 | 3.70 | D196637 | 1.60 | 464907 | 1040130 | L | 8950 | 09/01/88 |
| | | | | | | | | | | 18.60 | 0.90 | | 0.0 | 2156 |
| 40.90 | 41.10 | 46.20 | 46.20 | GOLDEN VALLEY | 12.70 | 61.40 | 4.00 | D196640 | 1.40 | 465045 | 1040145 | L | 10180 | 09/01/88 |
| | | | | | | | | | | 19.70 | 0.80 | | 0.0 | 2246 |
| 23.10 | 42.30 | 37.20 | 37.20 | STARK | 20.50 | 54.50 | 3.80 | D173466 | 6.40 | 465126 | 1024125 | L | 9380 | 09/01/88 |
| | | | | | | | | | | 14.00 | 0.80 | | 0.0 | 0 |
| 41.10 | 43.00 | 41.60 | 41.60 | STARK | 15.40 | 57.40 | 3.50 | D213999 | 4.40 | 465417 | 1030900 | L | 9760 | 09/01/88 |
| | | | | | | | | | | 18.10 | 1.20 | | 0.0 | 2021 |
| 43.70 | 41.00 | 46.70 | 46.70 | STARK | 12.30 | 62.00 | 3.60 | D213997 | 1.10 | 465457 | 1030000 | L | 10380 | 09/01/88 |
| | | | | | | | | | | 19.80 | 1.20 | | 0.0 | 2030 |
| 44.80 | 43.50 | 45.60 | 45.60 | STARK | 10.90 | 62.90 | 4.00 | D213994 | 1.40 | 465512 | 1030345 | L | 10570 | 09/01/88 |
| | | | | | | | | | | 19.50 | 1.30 | | 0.0 | 2174 |
| 39.00 | 38.70 | 37.00 | 37.00 | STARK | 24.30 | 53.20 | 3.60 | D213996 | 2.80 | 465602 | 1030956 | L | 9030 | 09/01/88 |
| | | | | | | | | | | 15.00 | 1.10 | | 0.0 | 2039 |
| 40.40 | 40.10 | 36.10 | 36.10 | STARK | 23.80 | 52.00 | 3.70 | D213988 | 4.40 | 465634 | 1030504 | L | 8880 | 09/01/88 |
| | | | | | | | | | | 15.10 | 1.00 | | 0.0 | 1877 |
| 45.10 | 42.80 | 46.80 | 46.80 | STARK | 10.40 | 63.20 | 4.20 | D213991 | 0.90 | 465655 | 1030031 | L | 10610 | 09/01/88 |
| | | | | | | | | | | 20.20 | 1.10 | | 0.0 | 2228 |
| 42.60 | 47.00 | 43.40 | 43.40 | STARK | 9.60 | 63.40 | 4.80 | D213983 | 0.70 | 465749 | 1030502 | L | 10830 | 09/01/88 |
| | | | | | | | | | | 20.30 | 1.20 | | 0.0 | 2291 |
| 45.00 | 42.20 | 47.30 | 47.30 | STARK | 10.50 | 62.80 | 4.20 | D213985 | 0.90 | 465849 | 1030318 | L | 10430 | 09/01/88 |
| | | | | | | | | | | 20.50 | 1.10 | | 0.0 | 2138 |
| 37.80 | 40.40 | 45.80 | 45.80 | GOLDEN VALLEY | 13.80 | 61.00 | 3.90 | D196635 | 1.00 | 470041 | 1040100 | L | 10050 | 09/01/88 |
| | | | | | | | | | | 19.30 | 1.00 | | 0.0 | 2156 |
| 39.20 | 46.60 | 42.40 | 42.40 | GOLDEN VALLEY | 11.00 | 62.00 | 4.80 | D196629 | 1.50 | 470118 | 1040015 | L | 10680 | 09/01/88 |
| | | | | | | | | | | 19.50 | 1.20 | | 0.0 | 2291 |
| CENTER MINE | | | | OLIVER | 8.10 | 65.30 | 4.30 | D165568 | 0.80 | 470300 | 1011510 | L | 10780 | 09/01/88 |
| 34.20 | 41.50 | 50.40 | 50.40 | | | | | | | 20.40 | 1.10 | | 0.0 | 0 |
| CENTER MINE | | | | OLIVER | | | D165570 | | 0.40 | 470301 | 1011510 | L | 10870 | 09/01/88 |
| 33.20 | 44.20 | 49.20 | 49.20 | | 6.60 | 65.20 | 4.41 | | | 22.40 | 1.00 | | 0.0 | 0 |

Coal Field Information Printout for: ND - North Dakota

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-------------------|----------|-----------|----------|--------|-----|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| SOUTH BEULAH MINE | | | | MERCER | | | D165572 | | 470830 | 1014501 | L | 10330 | 09/01/88 |
| 29.80 | 41.50 | 46.10 | 12.40 | | | 60.40 | 4.30 | 3.10 | 19.10 | 0.70 | | 0.0 | 0 |
| SOUTH BEULAH MINE | | | | MERCER | | | D165573 | | 470830 | 1014502 | L | 11070 | 09/01/88 |
| 32.90 | 43.10 | 49.40 | 7.50 | | | 65.50 | 4.70 | 1.00 | 20.60 | 0.70 | | 0.0 | 0 |
| SOUTH BEULAH MINE | | | | MERCER | | | D165574 | | 470830 | 1014503 | L | 8970 | 09/01/88 |
| 28.40 | 37.00 | 40.80 | 22.20 | | | 56.20 | 3.40 | 1.50 | 15.70 | 1.00 | | 0.0 | 0 |
| SOUTH BEULAH MINE | | | | MERCER | | | D165575 | | 470830 | 1014504 | L | 8780 | 09/01/88 |
| 30.10 | 35.90 | 40.10 | 24.00 | | | 54.40 | 3.20 | 1.30 | 16.10 | 1.00 | | 0.0 | 0 |
| 38.00 | 43.20 | 43.60 | 13.20 | DUNN | | | D186054 | | 471009 | 1025145 | L | 10490 | 09/01/88 |
| | | | | | | 62.10 | 4.20 | 1.60 | 17.90 | 1.00 | | 0.0 | 2228 |
| 40.20 | 44.30 | 45.20 | 10.50 | OLIVER | | | D186053 | | 471142 | 1014433 | L | 11030 | 09/01/88 |
| | | | | | | 65.10 | 4.10 | 2.20 | 17.30 | 0.80 | | 0.0 | 2354 |
| 33.60 | 44.10 | 45.40 | 16.50 | OLIVER | | | D194035 | | 471306 | 1012109 | L | 10530 | 09/01/88 |
| | | | | | | 62.50 | 4.50 | 0.90 | 20.50 | 1.10 | | 0.0 | 1994 |
| 30.00 | 41.90 | 50.50 | 7.60 | MERCER | | | D175934 | | 471439 | 1015338 | L | 10730 | 09/01/88 |
| | | | | | | 64.50 | 4.10 | 0.30 | 22.50 | 1.00 | | 0.0 | 2129 |
| 35.20 | 44.40 | 46.60 | 9.00 | MERCER | | | D175938 | | 471450 | 1014532 | L | 9880 | 09/01/88 |
| | | | | | | 61.90 | 3.80 | 0.50 | 23.60 | .20 | | 0.0 | 2084 |
| 27.70 | 42.30 | 46.40 | 11.30 | MERCER | | | D175936 | | 471455 | 1015330 | L | 10550 | 09/01/88 |
| | | | | | | 63.00 | 4.20 | 1.70 | 18.80 | 1.00 | | 0.0 | 2147 |
| INDIAN HEAD MINE | | | | MERCER | | | D165578 | | 471505 | 1014510 | L | 10620 | 09/01/88 |
| 30.70 | 42.30 | 48.80 | 8.90 | | | 64.00 | 4.00 | 0.70 | 21.40 | 1.00 | | 0.0 | 0 |
| INDIAN HEAD MINE | | | | MERCER | | | D165576 | | 471510 | 1014510 | L | 10170 | 09/01/88 |
| 31.10 | 38.80 | 46.50 | 14.70 | | | 61.80 | 3.70 | 1.00 | 17.80 | 1.00 | | 0.0 | 0 |
| 27.50 | 39.40 | 49.20 | 11.40 | MERCER | | | D175932 | | 471517 | 1015412 | L | 10220 | 09/01/88 |
| | | | | | | 62.50 | 4.10 | 0.40 | 20.80 | 0.80 | | 0.0 | 2084 |
| 27.50 | 41.40 | 50.00 | 8.60 | MERCER | | | D175930 | | 471520 | 1015422 | L | 10620 | 09/01/88 |
| | | | | | | 64.30 | 4.20 | 0.60 | 21.30 | 1.00 | | 0.0 | 2129 |
| INDIAN HEAD MINE | | | | MERCER | | | D186051 | | 471530 | 1015345 | L | 11090 | 09/01/88 |
| 34.60 | 44.20 | 47.80 | 8.00 | | | 65.80 | 4.40 | 0.50 | 20.40 | 0.90 | | 0.0 | 2219 |
| 39.70 | 43.30 | 43.90 | 12.80 | DUNN | | | D180016 | | 471549 | 1023713 | L | 10200 | 09/01/88 |
| | | | | | | 60.80 | 4.30 | 1.70 | 19.60 | 0.80 | | 0.0 | 2255 |

Coal Field Information Printout for: ND - North Dakota

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-----------------|----------|-----------|----------|--------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | Ash | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| GLENHAROLD MINE | | | | MERCER | | D165564 | | | | L | | |
| 34.60 | 44.60 | 48.80 | 6.60 | | 65.40 | 4.50 | 0.80 | 471600 | 1011600 | | 10950 | 09/01/88 |
| | | | | | | | | 21.60 | 1.10 | | 0.0 | 0 |
| GLENHAROLD MINE | | | | MERCER | | D165565 | | | | L | | |
| 28.60 | 45.80 | 47.60 | 6.60 | | 65.10 | 4.50 | 0.70 | 471601 | 1011600 | | 10950 | 09/01/88 |
| | | | | | | | | 22.00 | 1.10 | | 0.0 | 0 |
| GLENHAROLD MINE | | | | MERCER | | D165566 | | | | L | | |
| 26.60 | 44.30 | 49.00 | 6.70 | | 65.00 | 4.60 | 0.80 | 471602 | 1011600 | | 10870 | 09/01/88 |
| | | | | | | | | 21.70 | 1.20 | | 0.0 | 0 |
| GLENHAROLD MINE | | | | MERCER | | D165567 | | | | L | | |
| 31.40 | 44.60 | 49.00 | 6.40 | | 65.40 | 4.70 | 0.70 | 471603 | 1011600 | | 10980 | 09/01/88 |
| | | | | | | | | 21.60 | 1.20 | | 0.0 | 0 |
| | | | | DUNN | | D180008 | | | | L | | |
| 40.10 | 42.40 | 46.60 | 11.00 | | 63.10 | 4.10 | 1.20 | 471613 | 1022911 | | 10500 | 09/01/88 |
| | | | | | | | | 19.80 | 0.80 | | 0.0 | 2165 |
| | | | | MERCER | | D186052 | | | | L | | |
| 38.70 | 44.90 | 46.80 | 8.30 | | 65.40 | 4.60 | 1.00 | 471614 | 1013601 | | 11170 | 09/01/88 |
| | | | | | | | | 19.60 | 1.10 | | 0.0 | 2417 |
| | | | | DUNN | | D180014 | | | | L | | |
| 40.90 | 43.50 | 45.00 | 11.50 | | 61.90 | 4.20 | 1.70 | 471615 | 1023246 | | 10350 | 09/01/88 |
| | | | | | | | | 19.90 | 0.80 | | 0.0 | 2318 |
| | | | | DUNN | | D180017 | | | | L | | |
| 40.00 | 43.80 | 43.70 | 12.50 | | 60.90 | 4.10 | 2.00 | 471615 | 1023470 | | 10190 | 09/01/88 |
| | | | | | | | | 19.70 | 0.80 | | 0.0 | 2381 |
| | | | | MERCER | | D194029 | | | | L | | |
| 33.10 | 43.60 | 45.80 | 10.60 | | 62.70 | 4.50 | 0.90 | 471640 | 1012538 | | 10410 | 09/01/88 |
| | | | | | | | | 20.30 | 1.00 | | 0.0 | 2156 |
| | | | | MERCER | | D221097 | | | | L | | |
| 33.60 | 42.60 | 47.80 | 9.60 | | 65.10 | 4.60 | 0.90 | 471657 | 1014938 | | 11160 | 09/01/88 |
| | | | | | | | | 18.60 | 1.20 | | 0.0 | 2264 |
| | | | | DUNN | | D180009 | | | | L | | |
| 40.50 | 43.20 | 46.20 | 10.60 | | 63.10 | 4.20 | 1.30 | 471706 | 1023323 | | 10500 | 09/01/88 |
| | | | | | | | | 20.00 | 0.80 | | 0.0 | 2219 |
| | | | | DUNN | | D180007 | | | | L | | |
| 37.90 | 43.00 | 44.60 | 12.40 | | 61.40 | 4.20 | 1.80 | 471707 | 1022744 | | 10240 | 09/01/88 |
| | | | | | | | | 19.20 | 1.00 | | 0.0 | 2174 |
| | | | | DUNN | | D180011 | | | | L | | |
| 39.90 | 42.90 | 46.30 | 10.80 | | 62.90 | 4.30 | 1.20 | 471707 | 1023516 | | 10500 | 09/01/88 |
| | | | | | | | | 20.00 | 0.80 | | 0.0 | 2408 |
| | | | | DUNN | | D180013 | | | | L | | |
| 34.60 | 41.30 | 40.80 | 17.90 | | 56.80 | 3.90 | 2.00 | 471707 | 1023750 | | 9470 | 09/01/88 |
| | | | | | | | | 18.60 | 0.80 | | 0.0 | 2156 |
| | | | | DUNN | | D178498 | | | | L | | |
| 46.40 | 48.70 | 27.20 | 24.10 | | 48.20 | 2.90 | 2.20 | 471708 | 1023311 | | 7260 | 09/01/88 |
| | | | | | | | | 21.70 | 0.90 | | 0.0 | 2039 |
| | | | | DUNN | | D179369 | | | | L | | |
| 42.70 | 42.10 | 43.60 | 14.30 | | 61.30 | 4.30 | 2.40 | 471711 | 1023400 | | 10310 | 09/01/88 |
| | | | | | | | | 17.00 | 0.70 | | 0.0 | 2246 |

Coal Field Information Printout for: ND - North Dakota

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------|----------|-----------|----------|--------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | Ash | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| | 36.00 | 44.20 | 28.00 | MERCER | 43.70 | 2.70 | 3.00 | 471718 | 1014822 | L | 6620 | 09/01/88 |
| | | | | | | | | 21.60 | 1.20 | | 0.0 | 2156 |
| | 42.00 | 41.90 | 42.90 | DUNN | 59.90 | 4.20 | 1.20 | 471732 | 1023302 | L | 10120 | 09/01/88 |
| | | | | | | | | 18.60 | 0.90 | | 0.0 | 2111 |
| | 36.10 | 34.10 | 34.90 | DUNN | 47.80 | 3.40 | 3.90 | 471733 | 1023454 | L | 8180 | 09/01/88 |
| | | | | | | | | 13.60 | 0.30 | | 0.0 | 2426 |
| | 41.00 | 43.10 | 47.70 | DUNN | 64.10 | 4.30 | 0.80 | 471745 | 1023015 | L | 10680 | 09/01/88 |
| | | | | | | | | 20.80 | 0.80 | | 0.0 | 2147 |
| | 43.20 | 42.80 | 41.50 | DUNN | 59.70 | 4.00 | 1.80 | 471745 | 1023403 | L | 9860 | 09/01/88 |
| | | | | | | | | 18.10 | 0.70 | | 0.0 | 2399 |
| | 47.00 | 45.30 | 44.70 | DUNN | 64.10 | 4.50 | 1.50 | 471750 | 1023517 | L | 10770 | 09/01/88 |
| | | | | | | | | 19.10 | 0.80 | | 0.0 | 2291 |
| | 37.80 | 44.10 | 45.60 | DUNN | 62.00 | 4.30 | 1.30 | 471758 | 1023645 | L | 10360 | 09/01/88 |
| | | | | | | | | 21.10 | 1.00 | | 0.0 | 2264 |
| | 28.70 | 35.20 | 41.00 | MERCER | 54.80 | 3.70 | 2.50 | 471759 | 1014856 | L | 9360 | 09/01/88 |
| | | | | | | | | 14.10 | 1.10 | | 0.0 | 2183 |
| | 43.10 | 48.10 | 43.60 | DUNN | 65.00 | 4.80 | 1.20 | 471800 | 1023215 | L | 11000 | 09/01/88 |
| | | | | | | | | 20.00 | 0.70 | | 0.0 | 2336 |
| | 40.10 | 43.20 | 43.60 | DUNN | 61.00 | 4.20 | 3.00 | 471800 | 1023322 | L | 10320 | 09/01/88 |
| | | | | | | | | 17.80 | 0.80 | | 0.0 | 2264 |
| | 45.40 | 43.20 | 47.30 | DUNN | 65.00 | 4.10 | 0.50 | 471803 | 1023229 | L | 10810 | 09/01/88 |
| | | | | | | | | 20.00 | 0.90 | | 0.0 | 2156 |
| | 47.40 | 42.40 | 45.80 | DUNN | 63.40 | 4.20 | 2.10 | 471813 | 1023130 | L | 10610 | 09/01/88 |
| | | | | | | | | 17.20 | 1.30 | | 0.0 | 2741 |
| | 44.40 | 44.10 | 46.20 | DUNN | 63.60 | 4.30 | 1.10 | 471813 | 1023442 | L | 10700 | 09/01/88 |
| | | | | | | | | 20.40 | 0.90 | | 0.0 | 2507 |
| | 43.80 | 47.80 | 44.00 | DUNN | 66.00 | 4.50 | 0.90 | 471822 | 1023515 | L | 11090 | 09/01/88 |
| | | | | | | | | 19.50 | 0.90 | | 0.0 | 2498 |
| | 46.60 | 42.30 | 46.80 | DUNN | 63.40 | 4.30 | 1.30 | 471826 | 1023403 | L | 10710 | 09/01/88 |
| | | | | | | | | 19.20 | 0.90 | | 0.0 | 2147 |
| | 40.30 | 43.70 | 47.10 | MERCER | 65.00 | 4.60 | 2.70 | 471848 | 1015137 | L | 11110 | 09/01/88 |
| | | | | | | | | 17.70 | 0.80 | | 0.0 | 2156 |

Coal Field Information Printout for: ND - North Dakota

| Location Moisture | Volatiles | Fixed Crbn | County Ash | Carbon | Hydrogen | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank Hardgrove | Htg Val Free Swell | Last Chg Hemi Temp |
|----------------------|-----------|------------|---------------|--------|----------|--------|--------------------|-----------------------|-------------------|-----------------------|-----------------------|
| 38.40 | 42.70 | 47.10 | MERCER | 65.00 | 4.40 | 1.50 | 471850 18.10 | 1015234 0.80 | L | 10890 0.0 | 09/01/88 2210 |
| 37.90 | 41.40 | 47.30 | DUNN | 62.10 | 4.00 | 1.00 | 471852 20.60 | 1022743 1.00 | L | 10330 0.0 | 09/01/88 2246 |
| 44.00 | 46.80 | 38.60 | DUNN | 61.50 | 4.30 | 1.80 | 471852 16.90 | 1023459 0.90 | L | 10270 0.0 | 09/01/88 2381 |
| 44.30 | 47.00 | 40.60 | DUNN | 62.20 | 4.10 | 2.00 | 471859 18.40 | 1023413 0.90 | L | 10310 0.0 | 09/01/88 2327 |
| 44.70 | 46.10 | 45.60 | DUNN | 66.20 | 4.60 | 0.70 | 471913 19.30 | 1023516 0.90 | L | 10960 0.0 | 09/01/88 2516 |
| 39.60 | 41.20 | 47.40 | MERCER | 64.10 | 4.60 | 1.50 | 471914 17.40 | 1015045 1.00 | L | 10780 0.0 | 09/01/88 2156 |
| 36.50 | 41.30 | 47.50 | MERCER | 64.10 | 4.20 | 1.40 | 471920 18.20 | 1015400 0.90 | L | 10570 0.0 | 09/01/88 2156 |
| 35.70 | 40.90 | 44.60 | MERCER | 61.00 | 4.30 | 3.00 | 471924 16.40 | 1014940 0.80 | L | 10420 0.0 | 09/01/88 2111 |
| 27.60 | 35.90 | 37.30 | MERCER | 50.50 | 3.10 | 1.70 | 471940 17.10 | 1015214 0.80 | L | 8510 0.0 | 09/01/88 2093 |
| 34.30 | 40.00 | 45.80 | MERCER | 61.10 | 4.10 | 1.70 | 471940 18.10 | 1015259 0.80 | L | 10250 0.0 | 09/01/88 2048 |
| 40.30 | 42.40 | 45.20 | DUNN | 61.30 | 4.10 | 1.20 | 471944 20.20 | 1023400 0.80 | L | 10210 0.0 | 09/01/88 2219 |
| 40.70 | 43.70 | 46.50 | DUNN | 62.60 | 4.50 | 1.20 | 472034 21.10 | 1023243 0.80 | L | 10520 0.0 | 09/01/88 2318 |
| 35.70 | 42.10 | 46.40 | MERCER | 63.20 | 4.40 | 1.20 | 472115 18.90 | 1015052 0.80 | L | 10470 0.0 | 09/01/88 2291 |
| 34.50 | 41.20 | 47.50 | MERCER | 63.10 | 4.20 | 1.10 | 472126 19.40 | 1015225 0.90 | L | 10360 0.0 | 09/01/88 2030 |
| 36.60 | 39.90 | 47.30 | MERCER | 62.70 | 4.20 | 0.50 | 472215 18.90 | 1015115 0.90 | L | 10270 0.0 | 09/01/88 2129 |
| 38.10 | 42.30 | 44.90 | MERCER | 61.60 | 4.30 | 1.00 | 472216 19.30 | 1015232 1.00 | L | 10450 0.0 | 09/01/88 2102 |

Coal Field Information Printout for: ND - North Dakota

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------|----------|-----------|----------|----------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| 31.70 | 39.50 | 44.80 | 15.70 | MERCER | 59.60 | 3.90 | 0.90 | 472309 | 1015145 | L | 9690 | 0.0 | 2129 |
| 37.60 | 40.70 | 42.20 | 17.10 | MCKENZIE | 58.60 | 3.90 | 2.40 | 472315 | 1035145 | L | 9790 | 0.0 | 1967 |
| 35.70 | 40.70 | 45.50 | 13.80 | MERCER | 61.80 | 4.10 | 2.20 | 472423 | 1014335 | L | 10100 | 0.0 | 2192 |
| 38.60 | 40.70 | 42.90 | 16.40 | MCKENZIE | 58.70 | 3.90 | 3.90 | 472620 | 1035730 | L | 9810 | 0.0 | 2057 |
| 42.10 | 43.00 | 45.40 | 11.60 | MCKENZIE | 61.30 | 4.20 | 1.60 | 473645 | 1035505 | L | 10340 | 0.0 | 2120 |
| 41.40 | 42.70 | 48.90 | 8.40 | MCKENZIE | 64.60 | 4.30 | 0.50 | 473705 | 1034640 | L | 10700 | 0.0 | 2129 |
| 30.30 | 35.20 | 34.00 | 10.80 | MCLEAN | 49.30 | 3.90 | 0.70 | 473847 | 1012000 | L | 8360 | 0.0 | 2246 |
| 31.20 | 35.50 | 33.70 | 30.80 | MCLEAN | 48.50 | 4.30 | 0.60 | 473853 | 1013757 | L | 8110 | 0.0 | 2318 |
| 41.90 | 43.20 | 41.10 | 15.70 | MCKENZIE | 59.00 | 4.00 | 2.10 | 474450 | 1025900 | L | 10140 | 0.0 | 1913 |
| 41.10 | 39.40 | 39.20 | 21.40 | MCKENZIE | 54.00 | 3.80 | 2.20 | 474745 | 1025630 | L | 9070 | 0.0 | 1931 |
| 40.20 | 42.10 | 48.40 | 9.50 | MCLEAN | 64.10 | 4.40 | 0.80 | 474830 | 1013805 | L | 10850 | 0.0 | 2183 |
| VELVA STRIP MINE | | | | | | | | | | | | | |
| 37.20 | 44.10 | 46.00 | 9.90 | WARD | 63.80 | 4.50 | 0.80 | 475231 | 1005731 | L | 10700 | 0.0 | 0 |
| 42.90 | 42.70 | 45.60 | 11.70 | MCKENZIE | 61.80 | 4.30 | 0.70 | 475602 | 1025510 | L | 10280 | 0.0 | 1913 |
| 37.80 | 43.40 | 47.80 | 8.80 | WARD | 64.80 | 4.30 | 0.50 | 480355 | 1011710 | L | 10760 | 0.0 | 2372 |
| 45.10 | 41.90 | 45.70 | 12.40 | WILLIAMS | 61.10 | 4.30 | 0.60 | 481032 | 1031022 | L | 10200 | 0.0 | 2210 |
| 40.80 | 46.10 | 39.00 | 14.90 | WILLIAMS | 58.70 | 4.00 | 3.90 | 481045 | 1031210 | L | 9880 | 0.0 | 2174 |

Coal Field Information Printout for: ND - North Dakota

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------|----------|-----------|----------|----------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | Ash | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| 43.50 | 42.60 | 42.20 | 42.20 | WILLIAMS | 60.40 | 4.30 | 2.30 | 481153 | 1034754 | L | 10430 | 09/01/88 |
| | | | | 15.20 | | | | 16.60 | 1.20 | | 0.0 | 2183 |
| 46.80 | 43.60 | 43.70 | 43.70 | WILLIAMS | 62.30 | 4.30 | 2.20 | 481233 | 1031135 | L | 10510 | 09/01/88 |
| | | | | 12.70 | | | | 17.60 | 0.90 | | 0.0 | 2390 |
| 43.00 | 42.70 | 46.40 | 46.40 | WILLIAMS | 63.60 | 4.30 | 0.70 | 481335 | 1030118 | L | 10550 | 09/01/88 |
| | | | | 10.90 | | | | 19.30 | 1.20 | | 0.0 | 2273 |
| 44.10 | 44.30 | 44.10 | 44.10 | WILLIAMS | 62.80 | 4.40 | 2.60 | 481454 | 1033103 | L | 10590 | 09/01/88 |
| | | | | 11.60 | | | | 17.60 | 1.00 | | 0.0 | 2444 |
| 40.60 | 41.50 | 43.60 | 43.60 | WILLIAMS | 60.20 | 4.10 | 1.50 | 481521 | 1034124 | L | 10040 | 09/01/88 |
| | | | | 14.90 | | | | 18.30 | 1.00 | | 0.0 | 2237 |
| 41.70 | 36.90 | 40.70 | 40.70 | WILLIAMS | 54.50 | 3.80 | 0.60 | 481525 | 1033059 | L | 9060 | 09/01/88 |
| | | | | 22.40 | | | | 17.80 | 0.90 | | 0.0 | 2318 |
| 43.60 | 44.80 | 47.80 | 47.80 | WILLIAMS | 66.80 | 4.70 | 0.90 | 481730 | 1030750 | L | 11260 | 09/01/88 |
| | | | | 7.40 | | | | 19.10 | 1.10 | | 0.0 | 2543 |
| 45.70 | 40.00 | 44.70 | 44.70 | WILLIAMS | 60.60 | 4.10 | 1.20 | 481743 | 1030156 | L | 10030 | 09/01/88 |
| | | | | 15.30 | | | | 17.80 | 1.00 | | 0.0 | 2228 |
| 45.30 | 42.80 | 50.80 | 50.80 | WILLIAMS | 66.50 | 4.40 | 0.40 | 482031 | 1030356 | L | 10800 | 09/01/88 |
| | | | | 6.40 | | | | 21.20 | 1.10 | | 0.0 | 2543 |
| 24.10 | 40.60 | 48.50 | 48.50 | BURKE | 64.60 | 4.40 | 0.70 | 484500 | 1025230 | L | 10900 | 09/01/88 |
| | | | | 10.90 | | | | 18.20 | 1.20 | | 0.0 | 0 |
| 39.20 | 39.60 | 45.90 | 45.90 | BURKE | 61.80 | 4.20 | 2.00 | 484825 | 1023401 | L | 10580 | 09/01/88 |
| | | | | 14.50 | | | | 16.50 | 1.00 | | 0.0 | 2021 |
| 36.10 | 40.70 | 49.90 | 49.90 | BURKE | 66.30 | 4.70 | 0.60 | 485431 | 1024825 | L | 11260 | 09/01/88 |
| | | | | 9.40 | | | | 17.70 | 1.30 | | 0.0 | 0 |

Coal Field Information Printout for

NE - Nebraska

Coal Field Information Printout for: NE - Nebraska

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Code Number | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-----------------|----------|-----------|----------|------------|-------|--------|----------|-------------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| 35.20 | 45.00 | 32.30 | | RICHARDSON | 22.70 | 47.20 | 2.80 | D178627 | 1.50 | 400125 | 952124 | B | 6840 | 09/01/88 |
| | | | | | | | | | | 24.40 | 1.40 | | 0.0 | 2156 |
| 20.50 | 39.00 | 36.20 | | RICHARDSON | 24.80 | 48.60 | 3.70 | D178626 | 7.20 | 400144 | 953546 | B | 8310 | 09/01/88 |
| | | | | | | | | | | 14.30 | 1.40 | | 0.0 | 1832 |
| 17.40 | 40.70 | 49.90 | | PAWNEE | 9.40 | 66.70 | 4.70 | D175052 | 5.20 | 400237 | 960215 | B | 11720 | 09/01/88 |
| | | | | | | | | | | 12.50 | 1.50 | | 0.5 | 1949 |
| 35.70 | 40.60 | 46.20 | | JOHNSON | 13.20 | 59.80 | 3.20 | D175051 | 2.20 | 402025 | 961120 | B | 9490 | 09/01/88 |
| | | | | | | | | | | 20.20 | 1.40 | | 0.0 | 2030 |
| HOLE NO RM-1-CS | | | | OTOE | | | | D176540 | | 403730 | 960040 | B | 7790 | 09/01/88 |
| 35.40 | 41.30 | 37.20 | 21.50 | | | 50.20 | 3.20 | | 1.20 | 22.80 | 1.10 | | 0.0 | 2048 |
| | | | | OTOE | | | | D178625 | | 403922 | 954904 | B | 7920 | 09/01/88 |
| 31.20 | 36.50 | 34.90 | 28.60 | | | 48.90 | 3.50 | | 2.00 | 15.80 | 1.20 | | 0.0 | 2138 |

Coal Field Information Printout for

NM - New Mexico

Coal Field Information Printout for: NM - New Mexico

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Code Number | | Latitude | Longitude | Rank | Htg Val | Last Chg | | |
|---------------------|----------|-----------|----------|----------|--------|-------------|---------|----------|-----------|-----------|------------|-----------|----------|----------|
| | | | | Ash | | Hydrogen | Sulfur | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp | | |
| CAPITAN NO 2 MINE | 1.20 | 29.40 | 45.40 | LINCOLN | 62.00 | D179835 | 4.50 | 0.50 | 333300 | 1053520 | B | 11180 | 09/01/88 | 2597 |
| | | | | LINCOLN | 12.40 | 70.90 | D179833 | 5.10 | 0.60 | 334345 | 1054215 | B | 12690 | 09/01/88 |
| 12.40 | 41.30 | 39.00 | 19.70 | LINCOLN | 58.40 | D179834 | 3.70 | 0.70 | 334350 | 1054220 | B | 9650 | 09/01/88 | 2444 |
| HOT SPOTS MINE | 6.60 | 35.10 | 58.00 | SOCORRO | 71.90 | D179837 | 4.60 | 0.50 | 341900 | 1072420 | B | 12370 | 09/01/88 | 2291 |
| | 8.40 | 34.80 | 29.50 | SOCORRO | 45.60 | D184619 | 3.10 | 0.40 | 342042 | 1071525 | SB | 7480 | 09/01/88 | 2552 |
| 10.80 | 38.10 | 50.20 | 11.70 | CATRON | 64.70 | D184617 | 4.30 | 0.70 | 343317 | 1074935 | SB | 10900 | 09/01/88 | 2804 |
| SUNDANCE STRIP MINE | 9.10 | 44.10 | 50.40 | MCKINLEY | 74.90 | D183132 | 5.50 | 0.70 | 352735 | 1083815 | SB | 13330 | 09/01/88 | 2561 |
| | | | | MCKINLEY | | D183133 | 5.30 | 0.50 | 353125 | 1084820 | SB | 13090 | 09/01/88 | 2255 |
| 12.00 | 43.90 | 50.10 | 6.00 | | 73.50 | D176204 | 5.00 | 0.60 | 353732 | 1085930 | SB | 12370 | 09/01/88 | 2408 |
| 9.60 | 42.50 | 47.30 | 10.20 | | 70.30 | D183130 | 4.90 | 0.70 | 353745 | 1085955 | SB | 11810 | 09/01/88 | 2714 |
| MCKINLEY STRIP MINE | 11.20 | 42.00 | 43.50 | MCKINLEY | 66.40 | D177043 | 4.80 | 0.60 | 361413 | 1080941 | SB | 11310 | 09/01/88 | 2633 |
| | 17.40 | 36.60 | 47.40 | SAN JUAN | 65.40 | D178921 | 4.40 | 0.50 | 361433 | 1080820 | SB | 10830 | 09/01/88 | 2795 |
| 17.60 | 37.50 | 43.10 | 19.40 | SAN JUAN | 61.70 | D178919 | 3.20 | 0.80 | 361433 | 1080823 | SB | 7930 | 09/01/88 | 2687 |
| 28.10 | 34.90 | 37.00 | 28.10 | SAN JUAN | 49.30 | D177040 | 4.70 | 0.50 | 361438 | 1080941 | SB | 11140 | 09/01/88 | 2624 |
| 20.40 | 36.40 | 46.40 | 17.20 | SAN JUAN | 64.10 | D177047 | 4.60 | 0.50 | 361456 | 1080823 | SB | 10650 | 09/01/88 | 2381 |
| 21.70 | 37.80 | 41.60 | 20.60 | SAN JUAN | 60.90 | D178928 | 4.90 | 0.50 | 361456 | 1080931 | SB | 11710 | 09/01/88 | 2408 |
| 17.20 | 38.20 | 47.50 | 14.30 | SAN JUAN | 66.60 | | | | | | | | | |

Coal Field Information Printout for: NM - New Mexico

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank | Htg Val Free Swell | Last Chg Hemi Temp |
|---------------------|----------|-----------|----------|----------|-------|--------|----------|--------|--------------------|-----------------------|-------|-----------------------|-----------------------|
| 17.80 | 40.10 | 38.20 | 21.70 | SAN JUAN | 60.20 | 4.50 | 0.70 | 361505 | 1080931 | SB | 10660 | 0.0 | 09/01/88 2869 |
| 11.00 | 30.30 | 29.80 | 39.90 | SAN JUAN | 44.40 | 3.70 | 1.00 | 361537 | 1080931 | SB | 7830 | 0.0 | 09/01/88 2912 |
| SOUTH HOSTEN PIT | 11.50 | 34.20 | 46.10 | SAN JUAN | 61.70 | 4.30 | 0.60 | 363530 | 1082830 | SB | 10810 | 0.0 | 09/01/88 2912 |
| BARBER-MATCHOTT PIT | 8.00 | 36.00 | 36.00 | SAN JUAN | 55.30 | 4.00 | 0.80 | 363545 | 1082900 | SB | 9590 | 0.0 | 09/01/88 2534 |
| SOUTH HOSTEN PIT | 9.20 | 33.50 | 45.90 | SAN JUAN | 61.30 | 4.30 | 0.60 | 363610 | 1082815 | SB | 10660 | 0.0 | 09/01/88 2912 |
| 5.70 | 33.10 | 41.10 | 25.80 | SAN JUAN | 56.70 | 4.30 | 0.70 | 363730 | 1082230 | SB | 9950 | 0.0 | 09/01/88 0 |
| 2.50 | 32.00 | 44.60 | 23.40 | COLFAX | 63.50 | 4.50 | 0.60 | 364500 | 1043000 | B | 11920 | 0.0 | 09/01/88 0 |
| 2.20 | 34.00 | 46.40 | 19.60 | COLFAX | 67.20 | 4.60 | 0.50 | 364500 | 1045230 | B | 12080 | 0.0 | 09/01/88 0 |
| 1.50 | 36.90 | 55.90 | 7.20 | COLFAX | 78.60 | 5.30 | 0.40 | 364500 | 1055230 | SB | 14010 | 0.0 | 09/01/88 0 |
| 6.90 | 38.90 | 37.40 | 23.70 | SAN JUAN | 56.40 | 4.00 | 1.60 | 364500 | 1082230 | SB | 9650 | 0.0 | 09/01/88 0 |
| SAN JUAN MINE | 4.80 | 39.20 | 42.90 | SAN JUAN | 63.70 | 4.70 | 0.90 | 364600 | 1082530 | SB | 11300 | 0.5 | 09/01/88 2534 |
| 1.80 | 37.80 | 54.40 | 7.80 | COLFAX | 77.90 | 5.30 | 0.40 | 365230 | 1045230 | B | 13910 | 0.0 | 09/01/88 0 |
| YORK CANYON MINE | 1.70 | 34.80 | 50.40 | COLFAX | 71.40 | 4.90 | 0.50 | 365300 | 1045500 | B | 12740 | 8.0 | 09/01/88 2363 |

Coal Field Information Printout for

NV - Nevada

Coal Field Information Printout for: NV - Nevada

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|--------------|----------|-----------|----------|------------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | Ash | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| LEWIS MINE | | | | LYON | | | | | | | | |
| 24.00 | 45.60 | 20.50 | 33.90 | | 33.10 | 2.90 | 7.10 | 383040 | 1185450 | L | 5440 | 09/01/88 |
| | | | | | | | | 22.20 | 0.80 | | 0.0 | 2102 |
| PANCAKE MINE | | | | WHITE PINE | | | | | | | | |
| 7.90 | 34.10 | 52.50 | 13.40 | | 65.00 | 3.80 | 2.40 | 392405 | 1154015 | B | 11090 | 09/01/88 |
| | | | | | | | | 14.40 | 1.00 | | 0.0 | 2282 |
| PANCAKE MINE | | | | WHITE PINE | | | | | | | | |
| 6.80 | 33.40 | 54.30 | 12.30 | | 66.10 | 3.90 | 2.30 | 392405 | 1154021 | B | 11160 | 09/01/88 |
| | | | | | | | | 14.40 | 1.00 | | 0.0 | 0 |
| PARIS MINE | | | | WHITE PINE | | | | | | | | |
| 1.30 | 20.00 | 70.30 | 9.70 | | 79.30 | 4.30 | 2.30 | 400200 | 1145400 | B | 13960 | 09/01/88 |
| | | | | | | | | 2.70 | 1.70 | | 3.0 | 2543 |

Coal Field Information Printout for

OH - Ohio

Coal Field Information Printout for: OH - Ohio

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-------------------------|----------|-----------|----------|------------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| MEIGS NO 1 MINE | 2.90 | 38.80 | 39.60 | MEIGS | 21.60 | 60.40 | 4.60 | 6.30 | 390332 | 821439 | B | 11000 | 09/01/88 |
| | | | | | | | | | 6.20 | 0.90 | | 1.0 | 1949 |
| MEIGS NO 3 MINE | 4.60 | 38.60 | 38.30 | VINTON | 23.10 | 59.20 | 4.50 | 4.20 | 390413 | 822219 | B | 10550 | 09/01/88 |
| | | | | | | | | | 8.10 | 0.90 | | 1.5 | 2282 |
| MEIGS NO 3 MINE | 4.40 | 43.40 | 42.50 | VINTON | 14.10 | 67.20 | 5.00 | 2.80 | 390414 | 822218 | B | 12230 | 09/01/88 |
| | | | | | | | | | 9.90 | 1.00 | | 2.0 | 2282 |
| MEIGS NO 2 MINE | 5.40 | 39.30 | 45.70 | MEIGS | 15.00 | 56.10 | 5.00 | 3.10 | 390829 | 821734 | B | 11820 | 09/01/88 |
| | | | | | | | | | 9.70 | 1.10 | | 1.5 | 2156 |
| MEIGS NO 2 MINE | 4.70 | 41.80 | 46.70 | MEIGS | 11.50 | 69.20 | 5.10 | 3.10 | 390829 | 821736 | B | 12530 | 09/01/88 |
| | | | | | | | | | 10.10 | 1.00 | | 4.0 | 2147 |
| CORE PPC 1 | 3.30 | 40.10 | 50.20 | WASHINGTON | 9.70 | 73.80 | 5.00 | 4.40 | 393408 | 812011 | B | 13550 | 09/01/88 |
| | | | | | | | | | 5.80 | 1.30 | | 6.0 | 2138 |
| PPC 3C | 3.40 | 38.20 | 51.90 | NOBLE | 9.90 | 74.20 | 5.00 | 3.70 | 393556 | 811810 | B | 13410 | 09/01/88 |
| | | | | | | | | | 5.90 | 1.30 | | 5.5 | 2129 |
| PPC 2C | 3.00 | 35.50 | 49.90 | NOBLE | 14.60 | 70.90 | 4.80 | 2.60 | 393642 | 811928 | B | 12710 | 09/01/88 |
| | | | | | | | | | 5.80 | 1.30 | | 4.0 | 2138 |
| R&F COAL, VARGO PIT | 8.00 | 33.30 | 45.20 | PERRY | 21.50 | 60.50 | 4.00 | 4.10 | 393905 | 820836 | B | 10750 | 09/01/88 |
| | | | | | | | | | 8.80 | 1.10 | | 1.5 | 2111 |
| SUNNYHILL NO 4 MINE | 5.80 | 32.70 | 37.80 | PERRY | 29.50 | 54.90 | 3.90 | 2.20 | 394040 | 821102 | B | 9670 | 09/01/88 |
| | | | | | | | | | 8.50 | 1.00 | | 0.5 | 2651 |
| SUNNYHILL NO 4 MINE | 6.40 | 36.00 | 41.70 | PERRY | 22.30 | 59.10 | 4.20 | 6.30 | 394041 | 821100 | B | 10730 | 09/01/88 |
| | | | | | | | | | 7.00 | 1.10 | | 1.0 | 2129 |
| R&F COAL, VARGO PIT | 2.60 | 35.30 | 41.40 | PERRY | 23.30 | 59.50 | 4.30 | 2.30 | 394224 | 820546 | B | 10550 | 09/01/88 |
| | | | | | | | | | 9.50 | 1.00 | | 1.5 | 2678 |
| NA COAL CORP, NO 7 MINE | 2.00 | 40.00 | 46.60 | MONROE | 13.40 | 70.10 | 4.90 | 4.10 | 394230 | 805230 | B | 12690 | 09/01/88 |
| | | | | | | | | | 6.30 | 1.20 | | 7.0 | 2093 |
| NA COAL CORP, NO 7 MINE | 1.00 | 39.90 | 48.10 | MONROE | 12.00 | 70.10 | 5.00 | 4.20 | 394340 | 805216 | B | 12710 | 09/01/88 |
| | | | | | | | | | 7.50 | 1.20 | | 7.0 | 2093 |
| NA COAL CORP, NO 4 MINE | 2.00 | 41.70 | 47.10 | MONROE | 11.20 | 71.60 | 5.20 | 5.00 | 394740 | 805106 | B | 12970 | 09/01/88 |
| | | | | | | | | | 5.80 | 1.20 | | 7.0 | 2093 |
| NA COAL CORP, NO 4 MINE | 2.00 | 44.10 | 46.90 | MONROE | 9.00 | 73.90 | 5.20 | 3.70 | 394740 | 805108 | B | 13360 | 09/01/88 |
| | | | | | | | | | 6.90 | 1.30 | | 7.5 | 2093 |

Coal Field Information Printout for: OH - Ohio

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------------------------|----------|-----------|----------|-----------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| NA COAL CORP, NO 1 MINE | 2.00 | 41.90 | 47.40 | MONROE | 10.70 | 72.00 | D173518 | 5.00 | 395047 | 805711 | B | 13020 | 09/01/88 |
| | | | | | | | | 4.60 | 6.50 | 1.20 | | 5.0 | 2030 |
| NA COAL CORP, NO 1 MINE | 2.00 | 42.60 | 47.60 | MONROE | 9.80 | 72.50 | D173515 | 5.20 | 395047 | 805712 | B | 13140 | 09/01/88 |
| | | | | | | | | 4.70 | 6.60 | 1.20 | | 6.5 | 2048 |
| NA COAL CORP, NO 5 MINE | 2.10 | 43.30 | 46.10 | BELMONT | 10.60 | 71.30 | D173517 | 5.10 | 395244 | 805224 | B | 13050 | 09/01/88 |
| | | | | | | | | 5.20 | 6.60 | 1.20 | | 6.0 | 2048 |
| Y & O COAL, ALLISON | 2.30 | 42.20 | 45.20 | BELMONT | 12.60 | 70.50 | D173516 | 4.90 | 395334 | 805933 | B | 12800 | 09/01/88 |
| | | | | | | | | 4.90 | 5.90 | 1.20 | | 5.0 | 2048 |
| Y & O COAL, ALLISON | 2.20 | 42.00 | 48.20 | BELMONT | 9.80 | 73.00 | D173510 | 5.00 | 395339 | 805934 | B | 13190 | 09/01/88 |
| | | | | | | | | 4.40 | 6.60 | 1.20 | | 6.5 | 2030 |
| NA COAL CORP, NO 6 MINE | 2.30 | 42.40 | 47.30 | BELMONT | 10.30 | 72.50 | D173520 | 5.20 | 395458 | 805749 | B | 13160 | 09/01/88 |
| | | | | | | | | 4.70 | 6.10 | 1.20 | | 6.0 | 2039 |
| NA COAL CORP, NO 6 MINE | 2.30 | 42.30 | 46.90 | BELMONT | 10.80 | 71.60 | D173521 | 5.00 | 395459 | 805749 | B | 13020 | 09/01/88 |
| | | | | | | | | 5.20 | 6.20 | 1.20 | | 5.0 | 2030 |
| NA COAL CORP NO 3 MINE | 1.60 | 42.60 | 46.60 | BELMONT | 10.80 | 72.10 | W187048 | 5.10 | 395635 | 805458 | B | 13080 | 09/01/88 |
| | | | | | | | | 4.60 | 6.30 | 1.10 | | 7.0 | 2039 |
| NA COAL CORP NO 3 MINE | 1.80 | 38.40 | 49.00 | BELMONT | 12.60 | 69.90 | W187049 | 5.00 | 395636 | 805505 | B | 12780 | 09/01/88 |
| | | | | | | | | 5.70 | 5.70 | 1.10 | | 5.5 | 2048 |
| BOITCH PIT NO 2 | 5.00 | 42.90 | 53.30 | MUSKINGUM | 3.80 | 77.10 | W190643 | 5.50 | 400050 | 815544 | B | 13710 | 09/01/88 |
| | | | | | | | | 2.20 | 10.20 | 1.20 | | 4.0 | 1967 |
| R&F COAL, CONE PIT | 1.90 | 37.30 | 44.70 | BELMONT | 18.00 | 64.90 | W189065 | 4.70 | 400102 | 810106 | B | 11740 | 09/01/88 |
| | | | | | | | | 3.10 | 8.10 | 1.20 | | 4.5 | 2381 |
| | 1.80 | 39.00 | 48.70 | BELMONT | 12.30 | 70.20 | W188929 | 4.90 | 400129 | 811130 | B | 12610 | 09/01/88 |
| | | | | | | | | 3.10 | 8.20 | 1.30 | | 5.5 | 2129 |
| BOITCH PIT NO 1 | 5.00 | 44.30 | 49.00 | MUSKINGUM | 6.70 | 71.20 | W190645 | 5.00 | 400130 | 815734 | B | 12890 | 09/01/88 |
| | | | | | | | | 5.30 | 10.70 | 1.10 | | 3.5 | 2372 |
| CONSOL COAL CO 46A PIT | 2.80 | 42.90 | 43.60 | BELMONT | 13.50 | 69.10 | W188970 | 4.90 | 400244 | 811044 | B | 12440 | 09/01/88 |
| | | | | | | | | 4.60 | 6.70 | 1.20 | | 5.0 | 2084 |
| CONSOL COAL CO MOUNTAINEER | 2.80 | 39.80 | 50.80 | BELMONT | 9.40 | 72.00 | W189002 | 5.00 | 400250 | 810507 | B | 13080 | 09/01/88 |
| | | | | | | | | 3.10 | 9.30 | 1.20 | | 6.0 | 2282 |
| R&F COAL, VARGO PIT | 2.20 | 30.20 | 41.70 | BELMONT | 28.10 | 57.00 | W189052 | 3.80 | 400304 | 805805 | B | 10040 | 09/01/88 |
| | | | | | | | | 3.00 | 7.20 | 0.90 | | 1.0 | 2417 |

Coal Field Information Printout for: OH - Ohio

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------------------------|----------|-----------|----------|-----------|-----|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| SAGINAW MINE | | | | BELMONT | | | | | | | | | |
| 1.90 | 38.90 | 50.90 | 10.20 | | | 71.70 | 5.10 | 5.40 | 400327 | 805501 | B | 12970 | 09/01/88 |
| | | | | | | | | | 6.40 | 1.20 | | 7.0 | 2003 |
| SAGINAW MINE | | | | BELMONT | | | | | | | | | |
| 2.00 | 42.10 | 50.60 | 7.30 | | | 73.90 | 5.30 | 4.00 | 400327 | 805502 | B | 13500 | 09/01/88 |
| | | | | | | | | | 8.40 | 1.10 | | 5.0 | 2057 |
| R&F COAL, PIT 414 | | | | BELMONT | | | | | | | | | |
| 2.90 | 34.90 | 42.80 | 22.30 | | | 61.60 | 4.30 | 2.40 | 400400 | 805943 | B | 11090 | 09/01/88 |
| | | | | | | | | | 8.30 | 1.10 | | 3.0 | 2426 |
| FAIRVIEW PIT | | | | GUERNSEY | | | | | | | | | |
| 2.90 | 39.40 | 49.10 | 11.50 | | | 70.20 | 4.90 | 3.40 | 400431 | 811610 | B | 12570 | 09/01/88 |
| | | | | | | | | | 6.70 | 1.30 | | 8.5 | 2129 |
| DOW MINING, REHM RO PIT | | | | BELMONT | | | | | | | | | |
| 2.20 | 32.30 | 43.70 | 24.00 | | | 60.00 | 4.50 | 2.50 | 400503 | 805152 | B | 10840 | 09/01/88 |
| | | | | | | | | | 8.10 | 0.90 | | 4.5 | 2741 |
| M&S MINING, BARTON PIT | | | | BELMONT | | | | | | | | | |
| 1.80 | 34.80 | 44.80 | 20.40 | | | 63.60 | 4.50 | 2.40 | 400524 | 805321 | B | 11410 | 09/01/88 |
| | | | | | | | | | 7.90 | 1.20 | | 2.5 | 2570 |
| R&F COAL, 331 PIT | | | | BELMONT | | | | | | | | | |
| 1.70 | 38.90 | 47.00 | 14.10 | | | 69.20 | 4.80 | 2.60 | 400554 | 805852 | B | 12330 | 09/01/88 |
| | | | | | | | | | 8.10 | 1.20 | | 6.5 | 2129 |
| CONSOL COAL CO 500 | | | | BELMONT | | | | | | | | | |
| 2.70 | 43.10 | 46.70 | 10.20 | | | 70.40 | 5.10 | 4.50 | 400640 | 811235 | B | 12930 | 09/01/88 |
| | | | | | | | | | 8.60 | 1.20 | | 6.0 | 2084 |
| CONSOL COAL CO 550 PIT | | | | BELMONT | | | | | | | | | |
| 2.20 | 47.10 | 36.60 | 16.30 | | | 65.10 | 4.80 | 7.50 | 400640 | 811236 | B | 12020 | 09/01/88 |
| | | | | | | | | | 5.10 | 1.20 | | 5.0 | 2030 |
| CONSOL COAL CO FRANKLIN 25 | | | | BELMONT | | | | | | | | | |
| 3.50 | 40.20 | 49.50 | 10.30 | | | 71.90 | 5.00 | 4.20 | 400846 | 810211 | B | 12920 | 09/01/88 |
| | | | | | | | | | 7.30 | 1.30 | | 4.0 | 2084 |
| SIMEO NO 7 MINE | | | | MUSKINGUM | | | | | | | | | |
| 5.10 | 48.30 | 48.30 | 3.40 | | | 77.40 | 5.50 | 3.10 | 400851 | 815246 | B | 14040 | 09/01/88 |
| | | | | | | | | | 9.10 | 1.50 | | 4.0 | 2003 |
| SIMCO NO 5 MINE | | | | COSHOCTON | | | | | | | | | |
| 2.70 | 44.60 | 48.90 | 6.50 | | | 72.50 | 5.20 | 4.40 | 400905 | 815004 | B | 13240 | 09/01/88 |
| | | | | | | | | | 10.20 | 1.20 | | 4.5 | 2192 |
| PEABODY-SIMCO SURFACE MINE | | | | MUSKINGUM | | | | | | | | | |
| 5.30 | 44.20 | 45.10 | 10.70 | | | 71.20 | 5.10 | 4.10 | 400909 | 814442 | B | 12800 | 09/01/88 |
| | | | | | | | | | 7.50 | 1.40 | | 3.0 | 2192 |
| DOW MINING, 250 PIT | | | | BELMONT | | | | | | | | | |
| 3.70 | 33.60 | 44.00 | 22.40 | | | 60.70 | 4.30 | 3.30 | 400949 | 805012 | B | 10980 | 09/01/88 |
| | | | | | | | | | 8.20 | 1.10 | | 4.0 | 2192 |
| SIMCO NO 5 MINE | | | | COSHOCTON | | | | | | | | | |
| 4.90 | 44.70 | 49.90 | 5.40 | | | 75.20 | 5.30 | 3.70 | 400951 | 815004 | B | 13540 | 09/01/88 |
| | | | | | | | | | 9.00 | 1.40 | | 4.0 | 2030 |
| R&F COAL, PAGE PIT | | | | HARRISON | | | | | | | | | |
| 2.40 | 38.40 | 50.80 | 10.80 | | | 71.60 | 5.10 | 3.00 | 401003 | 810032 | B | 12820 | 09/01/88 |
| | | | | | | | | | 8.20 | 1.30 | | 4.5 | 2183 |

Coal Field Information Printout for: OH - Ohio

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------------------|----------|-----------|----------|-----------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| R&F COAL, PELTZ-MITCHELL PIT | 3.00 | 36.10 | 45.70 | JEFFERSON | 18.20 | 62.70 | 4.60 | 5.30 | 401008 | 805100 | B | 11400 | 09/01/88 |
| | | | | | | | | | 8.40 | 0.80 | | 6.0 | 2084 |
| CONSOL COAL CO 46D PIT | 3.00 | 41.30 | 47.90 | HARRISON | 10.80 | 72.20 | 5.30 | 2.90 | 401018 | 810145 | B | 13040 | 09/01/88 |
| | | | | | | | | | 7.40 | 1.40 | | 4.0 | 2246 |
| R&F COAL, VARGO PIT | 4.00 | 36.90 | 47.60 | JEFFERSON | 15.50 | 66.60 | 4.60 | 4.80 | 401020 | 804517 | B | 12050 | 09/01/88 |
| | | | | | | | | | 7.10 | 1.40 | | 5.0 | 2084 |
| CONSOL COAL CO 46C PIT | 4.00 | 40.80 | 49.80 | HARRISON | 9.40 | 73.20 | 5.30 | 2.10 | 401020 | 810405 | B | 13160 | 09/01/88 |
| | | | | | | | | | 8.50 | 1.50 | | 4.0 | 2390 |
| R&F COAL, GROSSKY PIT | 7.30 | 34.80 | 45.80 | JEFFERSON | 19.40 | 63.10 | 4.30 | 1.10 | 401038 | 805144 | B | 11200 | 09/01/88 |
| | | | | | | | | | 11.00 | 1.10 | | 0.5 | 2633 |
| CONSOL COAL CO GEM OF EGYPT | 3.10 | 36.20 | 53.40 | HARRISON | 10.40 | 72.50 | 4.90 | 2.00 | 401041 | 805838 | B | 12970 | 09/01/88 |
| | | | | | | | | | 8.90 | 1.30 | | 4.0 | 2534 |
| SIMCO NO 4 MINE | 4.40 | 44.60 | 48.50 | COSHOCTON | 6.90 | 72.10 | 5.20 | 3.70 | 401200 | 814519 | B | 13160 | 09/01/88 |
| | | | | | | | | | 10.70 | 1.40 | | 4.0 | 2084 |
| SIMCO NO 4 MINE | 4.00 | 46.70 | 47.80 | COSHOCTON | 5.50 | 73.40 | 5.50 | 4.20 | 401201 | 814519 | B | 13400 | 09/01/88 |
| | | | | | | | | | 10.00 | 1.40 | | 6.5 | 2030 |
| BROKEN ARO SURFACE MINE | 6.90 | 40.00 | 51.90 | COSHOCTON | 8.10 | 73.50 | 5.10 | 2.80 | 401430 | 815904 | B | 13130 | 09/01/88 |
| | | | | | | | | | 9.20 | 1.30 | | 4.0 | 1958 |
| BROKEN ARO SURFACE MINE | 5.70 | 44.80 | 44.40 | COSHOCTON | 10.80 | 69.70 | 5.10 | 5.60 | 401433 | 815904 | B | 12670 | 09/01/88 |
| | | | | | | | | | 7.60 | 1.20 | | 4.5 | 2084 |
| BROKEN ARO SURFACE MINE | 5.50 | 45.00 | 49.60 | COSHOCTON | 5.40 | 75.30 | 5.10 | 4.10 | 401434 | 815904 | B | 13540 | 09/01/88 |
| | | | | | | | | | 8.70 | 1.40 | | 4.0 | 2066 |
| CONSOL COAL CO OAK PARK MINE | 3.20 | 38.50 | 52.20 | HARRISON | 9.30 | 73.90 | 5.00 | 3.90 | 401438 | 810044 | B | 13160 | 09/01/88 |
| | | | | | | | | | 6.50 | 1.40 | | 5.0 | 2066 |
| CONSOL COAL CO OAK PARK MINE | 3.50 | 40.80 | 50.50 | HARRISON | 8.70 | 74.50 | 5.20 | 3.40 | 401438 | 810046 | B | 13520 | 09/01/88 |
| | | | | | | | | | 6.60 | 1.60 | | 3.5 | 2030 |
| CONSOL COAL SILVER SPADE PIT | 2.80 | 38.90 | 51.50 | HARRISON | 9.60 | 71.30 | 5.00 | 3.50 | 401531 | 810132 | B | 12980 | 09/01/88 |
| | | | | | | | | | 9.30 | 1.30 | | 5.0 | 2111 |
| CONSOL COAL ROSE VALLEY MINE | 3.30 | 38.80 | 51.80 | HARRISON | 9.40 | 74.50 | 5.00 | 3.50 | 401538 | 805432 | B | 13200 | 09/01/88 |
| | | | | | | | | | 6.20 | 1.40 | | 6.5 | 2138 |
| CONSOL COAL ROSE VALLEY MINE | 3.10 | 36.40 | 53.50 | HARRISON | 10.10 | 74.20 | 5.00 | 3.10 | 401539 | 805437 | B | 13140 | 09/01/88 |
| | | | | | | | | | 6.20 | 1.40 | | 5.0 | 2183 |

Coal Field Information Printout for: OH - Ohio

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Code Number | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------------------|----------|-----------|----------|-----------|-------|--------|----------|-------------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| CONSOL COAL ROSE VALLEY MINE | 3.10 | 36.80 | 55.00 | HARRISON | 8.20 | 75.60 | 5.00 | W188997 | 2.30 | 401644 | 805432 | B | 13510 | 09/01/88 |
| | | | | | | | | | | 7.40 | 1.50 | | 6.0 | 2192 |
| Y & O COAL, NELMS NO 1 MINE | 2.20 | 41.40 | 51.30 | HARRISON | 7.30 | 76.60 | 5.30 | D173511 | 2.70 | 401823 | 805402 | B | 13750 | 09/01/88 |
| | | | | | | | | | | 6.70 | 1.40 | | 4.5 | 2183 |
| Y & O COAL, NELMS NO 2 MINE | 2.40 | 38.70 | 52.00 | HARRISON | 9.30 | 74.00 | 5.30 | D173513 | 3.10 | 401958 | 805500 | B | 13430 | 09/01/88 |
| | | | | | | | | | | 7.10 | 1.20 | | 5.5 | 2138 |
| CONSOL COAL ROSE VALLEY MINE | 2.30 | 38.90 | 52.80 | JEFFERSON | 8.30 | 73.40 | 5.10 | W188976 | 3.90 | 402200 | 804928 | B | 13380 | 09/01/88 |
| | | | | | | | | | | 8.00 | 1.30 | | 5.5 | 2102 |
| NA COAL CORP JENSIE MINE | 2.00 | 38.60 | 47.60 | JEFFERSON | 13.80 | 70.20 | 4.90 | W187044 | 4.60 | 402608 | 804933 | B | 12650 | 09/01/88 |
| | | | | | | | | | | 5.20 | 1.30 | | 4.5 | 2039 |

Coal Field Information Printout for

OK - Oklahoma

Coal Field Information Printout for: OK - Oklahoma

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Code Number | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------------------------|----------|-----------|----------|-----------|-------|--------|----------|--------|-------------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| 4.90 | 21.80 | 66.00 | 12.20 | LE FLORE | 77.50 | 3.00 | 2.00 | 2.00 | D176244 | 340946 | 944713 | B | 13240 | 09/01/88 |
| | | | | | | | | | | 3.60 | 1.70 | | 4.5 | 2147 |
| HEAVENER MINE | | | | | | | | | | | | | | |
| 1.00 | 22.20 | 69.20 | 8.60 | LE FLORE | 81.30 | 4.40 | 1.00 | 1.00 | D183431 | 345252 | 943650 | B | 14280 | 09/01/88 |
| | | | | | | | | | | 3.00 | 1.70 | | 9.0 | 2111 |
| 2.90 | 30.40 | 46.10 | 23.50 | PITTSBURG | 61.20 | 4.20 | 2.10 | 2.10 | D179904 | 345415 | 953720 | B | 10980 | 09/01/88 |
| | | | | | | | | | | 7.20 | 1.80 | | 1.5 | 2732 |
| STAR NO 3 MINE | | | | | | | | | | | | | | |
| 1.90 | 39.70 | 49.20 | 11.10 | PITTSBURG | 71.50 | 4.90 | 5.90 | 5.90 | D183437 | 345834 | 953657 | B | 13160 | 09/01/88 |
| | | | | | | | | | | 5.10 | 1.50 | | 7.5 | 2156 |
| GARLAND MINE | | | | | | | | | | | | | | |
| 2.60 | 31.60 | 63.80 | 4.60 | HASKELL | 82.10 | 5.00 | 1.60 | 1.60 | D183434 | 350647 | 950730 | B | 14720 | 09/01/88 |
| | | | | | | | | | | 4.90 | 1.80 | | 9.0 | 2066 |
| 1.90 | 31.10 | 61.70 | 7.20 | HASKELL | 79.20 | 5.10 | 1.60 | 1.60 | D179909 | 350653 | 951908 | B | 14100 | 09/01/88 |
| | | | | | | | | | | 5.00 | 1.90 | | 9.0 | 2039 |
| 3.00 | 19.00 | 74.70 | 6.30 | LE FLORE | 82.30 | 4.30 | 2.80 | 2.80 | D176248 | 350855 | 945405 | B | 14310 | 09/01/88 |
| | | | | | | | | | | 2.70 | 1.60 | | 8.0 | 2048 |
| 1.20 | 20.60 | 75.90 | 3.50 | HASKELL | 85.70 | 4.60 | 0.80 | 0.80 | D179902 | 350928 | 945759 | B | 15040 | 09/01/88 |
| | | | | | | | | | | 3.50 | 1.90 | | 9.0 | 2300 |
| 2.80 | 20.20 | 76.20 | 3.60 | HASKELL | 86.30 | 4.50 | 0.50 | 0.50 | D176853 | 350955 | 945707 | B | 14980 | 09/01/88 |
| | | | | | | | | | | 3.40 | 1.70 | | 9.0 | 2300 |
| 1.00 | 21.60 | 75.20 | 3.20 | HASKELL | 86.70 | 4.70 | 0.50 | 0.50 | D176851 | 350958 | 945640 | B | 15080 | 09/01/88 |
| | | | | | | | | | | 3.00 | 1.90 | | 9.0 | 2039 |
| 1.60 | 20.60 | 76.80 | 2.60 | HASKELL | 87.30 | 4.60 | 0.70 | 0.70 | D179907 | 351000 | 945635 | B | 15210 | 09/01/88 |
| | | | | | | | | | | 3.00 | 1.80 | | 9.0 | 2282 |
| GARLAND NO 10 MINE | | | | | | | | | | | | | | |
| 3.50 | 18.80 | 72.60 | 8.60 | LE FLORE | 81.60 | 4.20 | 1.10 | 1.10 | D176165 | 351010 | 944703 | B | 13890 | 09/01/88 |
| | | | | | | | | | | 2.70 | 1.80 | | 7.5 | 2354 |
| 1.20 | 19.50 | 74.80 | 5.70 | HASKELL | 84.00 | 4.30 | 0.80 | 0.80 | D176848 | 351120 | 950150 | B | 14490 | 09/01/88 |
| | | | | | | | | | | 3.40 | 1.80 | | 6.0 | 2093 |
| KEOTA COAL CO MINE | | | | | | | | | | | | | | |
| 1.80 | 25.20 | 64.40 | 10.40 | HASKELL | 78.20 | 4.60 | 1.60 | 1.60 | D176167 | 351258 | 945700 | B | 13790 | 09/01/88 |
| | | | | | | | | | | 3.50 | 1.70 | | 9.0 | 2408 |
| HOYT MINE | | | | | | | | | | | | | | |
| 1.80 | 28.90 | 62.60 | 8.50 | HASKELL | 77.80 | 5.00 | 1.50 | 1.50 | D183424 | 351545 | 951808 | B | 13940 | 09/01/88 |
| | | | | | | | | | | 5.30 | 1.90 | | 2.5 | 2237 |
| RIVER VALLEY MINERALS MINE | | | | | | | | | | | | | | |
| 1.90 | 29.00 | 67.60 | 3.40 | MUSKOGEE | 84.20 | 5.10 | 0.40 | 0.40 | D176855 | 352135 | 951635 | B | 14890 | 09/01/88 |
| | | | | | | | | | | 4.90 | 2.00 | | 0.0 | 2048 |

Coal Field Information Printout for: OK - Oklahoma

| Location | | County | | Code Number | | | Latitude | | Longitude | | Rank | | Htg Val | | Last Chg | |
|---------------------------|-----------|----------|-------|-------------|----------|--------|----------|----------|-----------|------------|-----------|----------|---------|--|----------|--|
| Moisture | Volatiles | Fxd Crbn | Ash | Carbon | Hydrogen | Sulfur | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp | | | | | |
| FORUM MINE | | | | | | | | | | | | | | | | |
| 1.00 | 29.80 | 61.90 | 8.30 | 77.90 | D183429 | 4.80 | 4.50 | 352318 | 951355 | B | 14080 | 09/01/88 | 2219 | | | |
| | | | | | | | | 2.90 | 1.60 | | 9.0 | | | | | |
| P&K POLLYANNA MINE | | | | | | | | | | | | | | | | |
| 6.10 | 37.40 | 58.90 | 3.70 | 79.40 | D183425 | 5.00 | 1.90 | 352815 | 955727 | B | 14160 | 09/01/88 | | | | |
| | | | | | | | | 8.10 | 1.90 | | 3.5 | 2111 | | | | |
| PORTER MINE | | | | | | | | | | | | | | | | |
| 2.60 | 39.60 | 55.50 | 4.90 | 78.60 | D183441 | 5.40 | 3.30 | 355150 | 953135 | B | 14390 | 09/01/88 | 2246 | | | |
| | | | | | | | | 6.00 | 1.80 | | 7.5 | | | | | |
| WAGONER | | | | | | | | | | | | | | | | |
| 2.20 | 33.60 | 49.10 | 17.30 | 67.70 | D176247 | 4.70 | 4.80 | 360028 | 953033 | B | 12270 | 09/01/88 | 2039 | | | |
| | | | | | | | | 4.10 | 1.40 | | 4.0 | | | | | |
| GABLES REDONDA MINE | | | | | | | | | | | | | | | | |
| 1.30 | 33.30 | 46.80 | 19.90 | 64.30 | D183428 | 4.40 | 6.80 | 360552 | 953005 | B | 11890 | 09/01/88 | 2255 | | | |
| | | | | | | | | 3.30 | 1.30 | | 6.0 | | | | | |
| MCNABB MINE | | | | | | | | | | | | | | | | |
| 4.30 | 32.10 | 62.90 | 5.00 | 80.20 | D183443 | 5.10 | 0.50 | 361507 | 954022 | B | 14600 | 09/01/88 | 2561 | | | |
| | | | | | | | | 7.20 | 2.00 | | 0.0 | | | | | |
| HEFNER&CO MINE | | | | | | | | | | | | | | | | |
| 2.50 | 37.00 | 52.60 | 10.40 | 71.80 | D18445 | 5.06 | 5.90 | 363234 | 952155 | B | 13270 | 09/01/88 | 2156 | | | |
| | | | | | | | | 5.30 | 1.60 | | 8.5 | | | | | |
| ROGERS | | | | | | | | | | | | | | | | |
| 5.70 | 34.40 | 57.80 | 7.80 | 77.70 | D184624 | 5.10 | 0.50 | 363520 | 952914 | B | 13780 | 09/01/88 | 2408 | | | |
| | | | | | | | | 7.10 | 1.80 | | 3.0 | | | | | |
| NOWATA | | | | | | | | | | | | | | | | |
| 5.70 | 35.40 | 59.50 | 5.10 | 79.70 | D184622 | 5.30 | 0.60 | 363628 | 952628 | B | 14300 | 09/01/88 | 2381 | | | |
| | | | | | | | | 7.50 | 1.80 | | 6.0 | | | | | |
| NOWATA | | | | | | | | | | | | | | | | |
| 2.70 | 43.40 | 51.30 | 5.30 | 77.60 | D184627 | 5.50 | 3.40 | 363934 | 952645 | B | 14190 | 09/01/88 | 2318 | | | |
| | | | | | | | | 6.50 | 1.70 | | 0.0 | | | | | |
| NOWATA | | | | | | | | | | | | | | | | |
| 2.90 | 44.50 | 48.80 | 6.70 | 76.30 | D184632 | 5.30 | 3.30 | 363939 | 952527 | B | 14000 | 09/01/88 | 2345 | | | |
| | | | | | | | | 6.60 | 1.80 | | 8.0 | | | | | |
| CRAIG | | | | | | | | | | | | | | | | |
| 3.20 | 44.30 | 48.90 | 6.80 | 75.00 | D184629 | 5.40 | 4.80 | 364130 | 952208 | B | 13920 | 09/01/88 | 2201 | | | |
| | | | | | | | | 6.50 | 1.50 | | 8.0 | | | | | |
| CRAIG | | | | | | | | | | | | | | | | |
| 3.00 | 45.80 | 49.10 | 5.10 | 77.90 | D184630 | 5.50 | 3.10 | 364226 | 952213 | B | 14280 | 09/01/88 | 2363 | | | |
| | | | | | | | | 6.80 | 1.60 | | 9.0 | | | | | |
| NOWATA | | | | | | | | | | | | | | | | |
| 2.80 | 43.90 | 50.40 | 5.70 | 77.40 | D184626 | 5.50 | 3.30 | 364325 | 952640 | B | 14190 | 09/01/88 | 2156 | | | |
| | | | | | | | | 6.50 | 1.60 | | 9.0 | | | | | |
| BILLS COAL CO PIT NO 2 | | | | | | | | | | | | | | | | |
| 2.70 | 36.40 | 49.10 | 14.50 | 69.90 | D183447 | 4.80 | 4.90 | 365339 | 951040 | B | 12740 | 09/01/88 | 2066 | | | |
| | | | | | | | | 4.60 | 1.30 | | 8.5 | | | | | |
| 4 STAR COAL AND MINING CO | | | | | | | | | | | | | | | | |
| 2.90 | 35.10 | 50.40 | 14.50 | 70.00 | D183453 | 4.80 | 4.60 | 365422 | 951240 | B | 12760 | 09/01/88 | 2012 | | | |
| | | | | | | | | 4.80 | 1.30 | | 8.5 | | | | | |

Coal Field Information Printout for: OK - Oklahoma

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Code Number | Sulfur | Latitude | Longitude | Rank | Htg Val | Free Swell | Hemi Temp | Last Chg |
|------------------------|----------|-----------|----------|--------|-------|--------|----------|-------------|--------|----------|-----------|------|---------|------------|-----------|----------|
| BILLS COAL CO PIT NO 5 | 3.00 | 35.80 | 48.20 | CRAIG | 16.00 | 68.70 | 4.70 | D183449 | 4.60 | 365455 | 951202 | B | 12490 | 8.0 | 2102 | 09/01/88 |
| LEONS COAL CO MINE | 2.30 | 35.90 | 49.00 | CRAIG | 15.10 | 68.70 | 4.80 | D183451 | 6.20 | 365552 | 950850 | B | 12670 | 8.5 | 2012 | 09/01/88 |
| CUSTOM COAL CO MINE | 2.90 | 38.20 | 53.10 | CRAIG | 8.70 | 75.30 | 5.10 | D183444 | 3.30 | 365630 | 950755 | B | 13780 | 7.0 | 2111 | 09/01/88 |

Coal Field Information Printout for

PA - Pennsylvania

Coal Field Information Printout for: PA - Pennsylvania

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Code Number | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-------------------------------|----------|-----------|----------|--------------|-------|--------|----------|-------------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| STRIP MINE, KELLEY ENTERPRISE | 2.20 | 36.90 | 55.10 | GREENE | 8.00 | 77.90 | 5.20 | W190575 | 1.40 | 394516 | 795652 | B | 13910 | 09/01/88 |
| | | | | | | | | | | 5.90 | 1.60 | | 8.0 | 2516 |
| STRIP MINE, KELLEY ENTERPRISE | 2.30 | 36.50 | 54.50 | GREENE | 9.00 | 77.10 | 5.20 | W190576 | 0.70 | 394517 | 795652 | B | 13760 | 09/01/88 |
| | | | | | | | | | | 6.40 | 1.60 | | 8.5 | 2912 |
| STRIP MINE, H&E COAL CO | 1.70 | 40.40 | 47.10 | GREENE | 12.50 | 73.20 | 5.10 | W190577 | 2.40 | 394540 | 800028 | B | 13150 | 09/01/88 |
| | | | | | | | | | | 5.30 | 1.50 | | 7.0 | 2516 |
| STRIP MINE, PONTARERO COAL CO | 11.80 | 36.10 | 54.50 | FAYETTE | 9.40 | 70.20 | 4.20 | W190581 | 1.80 | 395109 | 795232 | B | 11970 | 09/01/88 |
| | | | | | | | | | | 12.90 | 1.50 | | 0.0 | 2516 |
| PONTARERO & SONS COAL STRIP | 7.00 | 31.20 | 50.20 | FAYETTE | 18.60 | 64.80 | 4.20 | W189198 | 1.50 | 395110 | 795212 | B | 11260 | 09/01/88 |
| | | | | | | | | | | 9.70 | 1.20 | | 0.5 | 2912 |
| PENN MINERAL CO STRIP MINE | 1.40 | 36.10 | 50.60 | FAYETTE | 13.30 | 71.30 | 4.90 | W189174 | 4.80 | 395936 | 795530 | B | 12850 | 09/01/88 |
| | | | | | | | | | | 4.20 | 1.50 | | 8.0 | 2084 |
| STRIP MINE, PURCO COAL | 2.60 | 28.60 | 64.40 | FAYETTE | 7.00 | 81.50 | 4.80 | W190579 | 2.10 | 400307 | 792703 | B | 14430 | 09/01/88 |
| | | | | | | | | | | 3.20 | 1.40 | | 8.5 | 2246 |
| STRIP MINE, PURCO COAL | 2.40 | 29.00 | 62.70 | FAYETTE | 8.30 | 80.30 | 4.70 | W190580 | 3.00 | 400310 | 792703 | B | 14220 | 09/01/88 |
| | | | | | | | | | | 2.40 | 1.30 | | 8.0 | 2246 |
| STRIP MINE, ETNA EQUIPMENT | 4.80 | 35.10 | 43.20 | WASHINGTON | 21.70 | 63.70 | 4.40 | W190569 | 2.40 | 400354 | 800005 | B | 11310 | 09/01/88 |
| | | | | | | | | | | 6.50 | 1.30 | | 5.5 | 2192 |
| KES ENTERPRISES STRIP MINE | 1.20 | 36.20 | 47.30 | WASHINGTON | 16.50 | 68.10 | 4.70 | W189178 | 3.40 | 400628 | 800450 | B | 12290 | 09/01/88 |
| | | | | | | | | | | 5.80 | 1.50 | | 7.0 | 2156 |
| KES ENTERPRISES STRIP MINE | 1.50 | 37.00 | 47.30 | WASHINGTON | 15.70 | 69.50 | 4.80 | W189177 | 1.70 | 400634 | 800439 | B | 12500 | 09/01/88 |
| | | | | | | | | | | 6.70 | 1.60 | | 7.0 | 2678 |
| STRIP MINE, ETNA EQUIPMENT | 2.90 | 34.00 | 45.00 | WASHINGTON | 21.00 | 64.90 | 4.40 | W190564 | 2.70 | 400710 | 795908 | B | 11700 | 09/01/88 |
| | | | | | | | | | | 5.70 | 1.30 | | 7.5 | 2192 |
| STRIP MINE, TWILIGHT COAL CO | 4.70 | 37.90 | 42.20 | WASHINGTON | 19.90 | 65.70 | 4.60 | W190573 | 3.50 | 400846 | 800256 | B | 11860 | 09/01/88 |
| | | | | | | | | | | 4.90 | 1.40 | | 7.0 | 2246 |
| ALICE ROBINSON STRIP MINE | 2.10 | 29.90 | 63.20 | WESTMORELAND | 6.90 | 81.70 | 5.00 | W189176 | 1.70 | 400920 | 792500 | B | 14350 | 09/01/88 |
| | | | | | | | | | | 3.30 | 1.40 | | 9.0 | 2192 |
| STRIP MINE, TWILIGHT COAL CO | 8.10 | 32.60 | 46.40 | WASHINGTON | 21.00 | 65.00 | 4.10 | W190554 | 1.40 | 401013 | 800308 | B | 11410 | 09/01/88 |
| | | | | | | | | | | 7.10 | 1.40 | | 2.0 | 2192 |
| STRIP MINE | 2.00 | 35.60 | 54.60 | ALLEGHENY | 9.80 | 75.10 | 5.10 | W206830 | 2.00 | 401510 | 795237 | B | 13480 | 09/01/88 |
| | | | | | | | | | | 6.30 | 1.70 | | 9.0 | 2399 |

Coal Field Information Printout for: PA - Pennsylvania

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-------------------------------|----------|-----------|----------|--------------|-----|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| STRIP MINE | | | | ALLEGHENY | | | | | | | | | |
| 2.10 | 33.80 | 53.40 | 12.80 | | | 72.30 | 4.90 | 2.60 | 401540 | 795234 | B | 13010 | 09/01/88 |
| | | | | | | | | | 5.90 | 1.50 | | 8.5 | 2507 |
| BOGNA MINING CO STRIP MINE | | | | WASHINGTON | | | | | | | | | |
| 3.30 | 30.80 | 40.30 | 28.90 | | | 56.10 | 3.90 | 3.30 | 401940 | 803050 | B | 9980 | 09/01/88 |
| | | | | | | | | | 6.60 | 1.20 | | 3.0 | 2246 |
| STRIP MINE, PENNWEIR CONST CO | | | | WASHINGTON | | | | | | | | | |
| 2.70 | 40.00 | 32.90 | 27.10 | | | 56.70 | 4.20 | 6.50 | 402134 | 802938 | B | 10410 | 09/01/88 |
| | | | | | | | | | 4.40 | 1.10 | | 4.0 | 2084 |
| STRIP MINE, PENNWEIR CONST CO | | | | WASHINGTON | | | | | | | | | |
| 3.40 | 37.20 | 35.10 | 27.70 | | | 56.70 | 4.10 | 4.10 | 402137 | 802938 | B | 10340 | 09/01/88 |
| | | | | | | | | | 6.30 | 1.10 | | 5.5 | 2183 |
| STRIP MINE, N CAMBRIA FUEL | | | | WESTMORELAND | | | | | | | | | |
| 1.10 | 32.60 | 47.60 | 19.80 | | | 67.60 | 4.40 | 6.00 | 402139 | 792411 | B | 12140 | 09/01/88 |
| | | | | | | | | | 1.20 | 1.00 | | 8.0 | 2129 |
| STRIP MINE, BOGNA MINING CO | | | | WASHINGTON | | | | | | | | | |
| 3.80 | 39.30 | 45.80 | 14.90 | | | 70.00 | 4.90 | 0.70 | 402212 | 801822 | B | 12560 | 09/01/88 |
| | | | | | | | | | 8.00 | 1.50 | | 5.5 | 2912 |
| MIDWAY COAL CO STRIP MINE | | | | WASHINGTON | | | | | | | | | |
| 2.90 | 39.00 | 53.00 | 8.00 | | | 75.10 | 5.10 | 2.30 | 402257 | 801656 | B | 13510 | 09/01/88 |
| | | | | | | | | | 8.10 | 1.40 | | 6.0 | 2273 |
| NEW FLORENCE NO 2 MINE | | | | INDIANA | | | | | | | | | |
| 1.90 | 21.50 | 55.80 | 22.70 | | | 66.40 | 4.10 | 3.90 | 402258 | 790628 | B | 11860 | 09/01/88 |
| | | | | | | | | | 1.70 | 1.20 | | 9.0 | 2201 |
| NEW FLORENCE NO 2 MINE | | | | INDIANA | | | | | | | | | |
| 1.70 | 19.80 | 50.60 | 29.60 | | | 60.50 | 3.80 | 3.70 | 402304 | 790548 | B | 10770 | 09/01/88 |
| | | | | | | | | | 1.30 | 1.10 | | 9.0 | 2399 |
| NEW FLORENCE NO 2 MINE | | | | INDIANA | | | | | | | | | |
| 2.00 | 21.10 | 56.90 | 22.00 | | | 67.40 | 4.30 | 2.20 | 402354 | 790528 | B | 11960 | 09/01/88 |
| | | | | | | | | | 2.90 | 1.20 | | 9.0 | 2642 |
| STRIP MINE | | | | ALLEGHENY | | | | | | | | | |
| 2.20 | 37.50 | 56.10 | 6.40 | | | 78.60 | 5.40 | 1.00 | 402415 | 800723 | B | 13790 | 09/01/88 |
| | | | | | | | | | 7.20 | 1.40 | | 8.5 | 2714 |
| | | | | CAMBERIA | | | | | | | | | |
| 2.90 | 20.30 | 68.30 | 11.40 | | | 79.40 | 4.50 | 1.60 | 402446 | 784832 | B | 13840 | 09/01/88 |
| | | | | | | | | | 1.70 | 1.40 | | 9.0 | 2246 |
| | | | | CAMBERIA | | | | | | | | | |
| 3.00 | 19.70 | 70.10 | 10.20 | | | 80.20 | 4.50 | 1.20 | 402450 | 784817 | B | 13980 | 09/01/88 |
| | | | | | | | | | 2.50 | 1.40 | | 9.0 | 2516 |
| | | | | CAMBERIA | | | | | | | | | |
| 2.50 | 19.10 | 66.60 | 14.30 | | | 76.00 | 4.30 | 0.90 | 402454 | 784825 | B | 13330 | 09/01/88 |
| | | | | | | | | | 3.10 | 1.40 | | 9.0 | 2642 |
| STRIP MINE | | | | ALLEGHENY | | | | | | | | | |
| 3.00 | 36.50 | 50.30 | 13.20 | | | 70.60 | 4.90 | 2.60 | 402521 | 801711 | B | 12720 | 09/01/88 |
| | | | | | | | | | 7.30 | 1.40 | | 5.5 | 2228 |
| STRIP MINE | | | | ALLEGHENY | | | | | | | | | |
| 2.70 | 39.00 | 53.30 | 7.70 | | | 75.40 | 5.10 | 2.10 | 402529 | 801621 | B | 13640 | 09/01/88 |
| | | | | | | | | | 8.20 | 1.50 | | 5.0 | 2336 |

Coal Field Information Printout for: PA - Pennsylvania

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|--------------------|----------|-----------|----------|-----------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| STRIP MINE | 2.40 | 37.30 | 55.70 | ALLEGHENY | 7.00 | 77.00 | W210410 | 1.30 | 402534 | 801418 | B | 13750 | 09/01/88 |
| | | | | | | | 5.10 | | 8.00 | 1.60 | | 6.0 | 2642 |
| STRIP MINE | 0.90 | 21.90 | 53.00 | INDIANA | 25.10 | 65.70 | W202073 | 2.10 | 402740 | 790240 | B | 11440 | 09/01/88 |
| | | | | | | | 3.60 | | 2.40 | 1.10 | | 9.0 | 2804 |
| HELEN MINE | 0.70 | 26.30 | 58.60 | INDIANA | 15.10 | 72.70 | W197225 | 3.80 | 402830 | 791332 | B | 13020 | 09/01/88 |
| | | | | | | | 4.50 | | 2.70 | 1.20 | | 9.0 | 2129 |
| HOMER CITY NO 1 | 0.80 | 27.30 | 54.70 | INDIANA | 18.00 | 70.30 | W196304 | 3.30 | 402830 | 791339 | B | 12500 | 09/01/88 |
| | | | | | | | 4.30 | | 3.00 | 1.10 | | 8.0 | 2183 |
| HOMER CITY NO 1 | 1.00 | 26.00 | 60.40 | INDIANA | 13.60 | 75.30 | W196308 | 2.40 | 402850 | 791304 | B | 13300 | 09/01/88 |
| | | | | | | | 4.50 | | 3.10 | 1.10 | | 9.0 | 2237 |
| LUCERNE NO 6 | 0.90 | 23.90 | 61.30 | INDIANA | 14.80 | 73.70 | W197247 | 1.80 | 402852 | 791251 | B | 13100 | 09/01/88 |
| | | | | | | | 4.50 | | 3.90 | 1.30 | | 9.0 | 2354 |
| HELEN MINE | 1.70 | 25.50 | 60.40 | INDIANA | 14.10 | 74.30 | W197230 | 2.60 | 402853 | 791252 | B | 13300 | 09/01/88 |
| | | | | | | | 4.40 | | 3.30 | 1.30 | | 9.0 | 2228 |
| HELEN MINE | 1.20 | 24.60 | 58.10 | INDIANA | 17.30 | 71.80 | W197222 | 2.40 | 402909 | 791406 | B | 12630 | 09/01/88 |
| | | | | | | | 4.30 | | 3.00 | 1.20 | | 9.0 | 2273 |
| HOMER CITY NO 1 | 0.80 | 26.70 | 61.70 | INDIANA | 11.60 | 77.50 | W196291 | 2.10 | 402910 | 791401 | B | 13550 | 09/01/88 |
| | | | | | | | 4.60 | | 2.90 | 1.30 | | 9.0 | 2156 |
| HOMER CITY NO 1 | 1.30 | 25.80 | 65.00 | INDIANA | 9.20 | 78.00 | W196300 | 2.80 | 402937 | 791326 | B | 13830 | 09/01/88 |
| | | | | | | | 4.60 | | 4.30 | 1.10 | | 9.0 | 2030 |
| HELEN MINE | 1.00 | 26.00 | 62.30 | INDIANA | 11.70 | 77.10 | W197218 | 1.80 | 402950 | 791350 | B | 13590 | 09/01/88 |
| | | | | | | | 4.60 | | 3.40 | 1.40 | | 9.0 | 2462 |
| HEAD COAL CO STRIP | 2.80 | 27.70 | 62.30 | INDIANA | 10.00 | 77.90 | W207284 | 2.90 | 403004 | 791010 | B | 13930 | 09/01/88 |
| | | | | | | | 4.90 | | 2.90 | 1.40 | | 9.0 | 2354 |
| HEAD COAL CO STRIP | 3.70 | 28.60 | 63.80 | INDIANA | 7.60 | 80.20 | W207292 | 0.70 | 403004 | 791020 | B | 14230 | 09/01/88 |
| | | | | | | | 5.10 | | 4.90 | 1.50 | | 9.0 | 2102 |
| HELEN MINE | 1.10 | 25.90 | 62.30 | INDIANA | 11.80 | 77.60 | W197234 | 0.90 | 403011 | 791347 | B | 13590 | 09/01/88 |
| | | | | | | | 4.50 | | 3.80 | 1.40 | | 9.0 | 2579 |
| HOMER CITY NO 1 | 1.30 | 24.70 | 62.30 | INDIANA | 13.00 | 75.40 | W196296 | 1.50 | 403013 | 791247 | B | 13370 | 09/01/88 |
| | | | | | | | 4.60 | | 4.20 | 1.30 | | 9.0 | 2390 |
| STRIP MINE | 1.10 | 29.40 | 57.80 | INDIANA | 12.80 | 73.10 | W202077 | 6.40 | 403030 | 790720 | B | 13260 | 09/01/88 |
| | | | | | | | 4.60 | | 1.70 | 1.40 | | 8.5 | 2111 |

Coal Field Information Printout for: PA - Pennsylvania

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------------------------|----------|-----------|----------|-----------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | Ash | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| LUCERNE NO 6 | 0.80 | 29.00 | 59.90 | INDIANA | 76.80 | 4.60 | 2.20 | 403031 | 791458 | B | 13730 | 09/01/88 |
| | | | | | | | | 3.90 | 1.40 | | 9.0 | 2156 |
| LUCERNE NO 6 | 0.90 | 29.10 | 61.60 | INDIANA | 78.90 | 4.80 | 2.00 | 403033 | 791454 | B | 14080 | 09/01/88 |
| | | | | | | | | 3.70 | 1.30 | | 7.5 | 2246 |
| LUCERNE NO 6 | 1.00 | 28.50 | 58.90 | INDIANA | 75.50 | 4.60 | 1.90 | 403046 | 791422 | B | 13460 | 09/01/88 |
| | | | | | | | | 4.20 | 1.20 | | 8.0 | 2516 |
| LUCERNE NO 6 | 1.50 | 26.30 | 61.80 | INDIANA | 76.40 | 4.50 | 2.00 | 403052 | 791324 | B | 13230 | 09/01/88 |
| | | | | | | | | 4.00 | 1.20 | | 8.0 | 2399 |
| LUCERNE NO 6 | 0.90 | 20.60 | 58.40 | INDIANA | 69.20 | 3.90 | 1.00 | 403105 | 791302 | B | 12070 | 09/01/88 |
| | | | | | | | | 3.80 | 1.10 | | 3.5 | 2750 |
| LUCERNE NO 6 | 1.30 | 23.00 | 59.20 | INDIANA | 71.10 | 4.20 | 0.70 | 403105 | 791303 | B | 12390 | 09/01/88 |
| | | | | | | | | 4.90 | 1.30 | | 8.5 | 2912 |
| LUCERNE NO 6 | 1.00 | 19.40 | 53.00 | INDIANA | 63.00 | 3.60 | 1.00 | 403107 | 791302 | B | 11010 | 09/01/88 |
| | | | | | | | | 3.70 | 1.10 | | 1.0 | 2912 |
| LUCERNE NO 6 | 1.00 | 24.60 | 51.90 | INDIANA | 65.30 | 4.10 | 2.30 | 403235 | 791318 | B | 11590 | 09/01/88 |
| | | | | | | | | 3.70 | 1.10 | | 8.5 | 2651 |
| LUCERNE NO 6 | 0.80 | 19.50 | 42.10 | INDIANA | 50.70 | 3.10 | 4.50 | 403240 | 791400 | B | 9020 | 09/01/88 |
| | | | | | | | | 2.60 | 0.70 | | 1.0 | 2354 |
| LUCERNE NO 6 | 1.10 | 29.20 | 57.60 | INDIANA | 74.90 | 4.50 | 2.40 | 403254 | 791434 | B | 13340 | 09/01/88 |
| | | | | | | | | 3.70 | 1.30 | | 9.0 | 2318 |
| STRIP MINE, BRYAN CONST CO | 1.60 | 38.90 | 50.90 | ARMSTRONG | 75.00 | 4.80 | 4.50 | 403332 | 792559 | B | 13630 | 09/01/88 |
| | | | | | | | | 4.00 | 1.50 | | 7.5 | 2066 |
| | 1.60 | 29.10 | 59.60 | INDIANA | 77.20 | 4.90 | 2.10 | 403627 | 790235 | B | 13710 | 09/01/88 |
| | | | | | | | | 3.20 | 1.30 | | 0.0 | 0 |
| | 1.30 | 28.10 | 57.20 | INDIANA | 71.60 | 4.40 | 7.60 | 403645 | 790332 | B | 12950 | 09/01/88 |
| | | | | | | | | 0.50 | 1.20 | | 0.0 | 0 |
| | 2.00 | 28.40 | 60.50 | INDIANA | 76.80 | 4.80 | 3.50 | 403647 | 790409 | B | 13800 | 09/01/88 |
| | | | | | | | | 2.50 | 1.30 | | 0.0 | 0 |
| | 1.70 | 29.80 | 59.80 | INDIANA | 77.70 | 4.70 | 2.70 | 403811 | 790332 | B | 13790 | 09/01/88 |
| | | | | | | | | 3.20 | 1.30 | | 0.0 | 0 |
| | 1.50 | 31.20 | 60.40 | INDIANA | 80.00 | 4.90 | 2.70 | 403821 | 790341 | B | 14470 | 09/01/88 |
| | | | | | | | | 2.60 | 1.40 | | 0.0 | 0 |

Coal Field Information Printout for: PA - Pennsylvania

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------------------|----------|-----------|----------|------------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| L&E CONSTRUCTION | | | | | | | | | | | | | |
| 1.70 | 33.80 | 55.70 | 10.50 | ARMSTRONG | 75.80 | 4.80 | 2.20 | 2.20 | 404112 | 791952 | B | 13600 | 09/01/88 |
| | | | | | | | | | 5.30 | 1.40 | | 9.0 | 2219 |
| STRIP MINE, ROB COAL CO | | | | | | | | | | | | | |
| 4.10 | 38.60 | 55.50 | 5.90 | ARMSTRONG | 79.90 | 5.20 | 2.60 | 2.60 | 404225 | 793645 | B | 14290 | 09/01/88 |
| | | | | | | | | | 4.90 | 1.50 | | 8.0 | 2093 |
| FAWN MINE NO 91 | | | | | | | | | | | | | |
| 2.80 | 31.80 | 47.50 | 20.70 | BUTLER | 65.40 | 4.50 | 1.90 | 1.90 | 404311 | 794806 | B | 11730 | 09/01/88 |
| | | | | | | | | | 6.20 | 1.30 | | 8.5 | 2624 |
| FAWN MINE NO 91 | | | | | | | | | | | | | |
| 3.10 | 31.20 | 47.90 | 20.90 | BUTLER | 66.30 | 4.60 | 1.30 | 1.30 | 404340 | 794804 | B | 11760 | 09/01/88 |
| | | | | | | | | | 5.60 | 1.30 | | 8.0 | 2651 |
| COCHRAN&KELLER MINE | | | | | | | | | | | | | |
| 1.70 | 33.20 | 54.90 | 11.90 | ARMSTRONG | 73.80 | 4.40 | 1.90 | 1.90 | 404404 | 792535 | B | 13190 | 09/01/88 |
| | | | | | | | | | 6.60 | 1.40 | | 9.0 | 2462 |
| NICHOLSON RUN CO STRIP | | | | | | | | | | | | | |
| 1.70 | 34.70 | 53.90 | 11.40 | ARMSTRONG | 73.60 | 5.00 | 2.30 | 2.30 | 404455 | 793620 | B | 13330 | 09/01/88 |
| | | | | | | | | | 6.40 | 1.30 | | 7.5 | 1949 |
| ANDERSON CRK COAL&CLAY STRIP | | | | | | | | | | | | | |
| 1.00 | 22.20 | 61.30 | 16.50 | CLEARFIELD | 69.70 | 4.10 | 6.90 | 6.90 | 404502 | 782301 | B | 12520 | 09/01/88 |
| | | | | | | | | | 1.80 | 1.00 | | 8.5 | 2084 |
| ANDERSON CRK COAL&CLAY STRIP | | | | | | | | | | | | | |
| 2.70 | 22.50 | 58.30 | 19.20 | CLEARFIELD | 69.90 | 4.30 | 2.20 | 2.20 | 404506 | 782307 | B | 12180 | 09/01/88 |
| | | | | | | | | | 3.40 | 1.00 | | 8.5 | 2669 |
| NORTHUMBERLAND | | | | | | | | | | | | | |
| 1.20 | 10.00 | 80.40 | 9.60 | | 83.10 | 3.20 | 0.80 | 0.80 | 404704 | 763702 | A | 13850 | 09/01/88 |
| | | | | | | | | | 2.00 | 1.30 | | 0.0 | 0 |
| ARMSTRONG | | | | | | | | | | | | | |
| 2.00 | 34.90 | 51.90 | 13.20 | | 71.10 | 5.00 | 2.80 | 2.80 | 404715 | 792930 | B | 12980 | 09/01/88 |
| | | | | | | | | | 6.60 | 1.30 | | 9.0 | 2354 |
| W HOUSER COAL CO STRIP MINE | | | | | | | | | | | | | |
| 2.10 | 35.10 | 49.80 | 15.10 | ARMSTRONG | 70.80 | 5.00 | 1.90 | 1.90 | 404748 | 793833 | B | 12700 | 09/01/88 |
| | | | | | | | | | 5.90 | 1.30 | | 8.5 | 2534 |
| W HOUSER COAL CO STRIP MINE | | | | | | | | | | | | | |
| 1.90 | 35.10 | 54.00 | 10.90 | ARMSTRONG | 74.70 | 5.10 | 1.80 | 1.80 | 404748 | 793834 | B | 13340 | 09/01/88 |
| | | | | | | | | | 6.10 | 1.40 | | 8.5 | 2462 |
| BBS SURFACE MINE | | | | | | | | | | | | | |
| 1.10 | 26.60 | 62.70 | 10.70 | INDIANA | 77.70 | 4.70 | 0.90 | 0.90 | 404808 | 785106 | B | 13700 | 09/01/88 |
| | | | | | | | | | 4.60 | 1.40 | | 8.5 | 2804 |
| STRIP MINE | | | | | | | | | | | | | |
| 1.40 | 36.80 | 49.50 | 13.70 | ARMSTRONG | 67.50 | 4.10 | 6.20 | 6.20 | 405144 | 793725 | B | 12350 | 09/01/88 |
| | | | | | | | | | 7.50 | 1.00 | | 8.0 | 2111 |
| STRIP MINE | | | | | | | | | | | | | |
| 1.70 | 36.70 | 54.00 | 9.30 | ARMSTRONG | 71.90 | 5.10 | 4.80 | 4.80 | 405144 | 793728 | B | 13080 | 09/01/88 |
| | | | | | | | | | 8.00 | 0.90 | | 8.0 | 2138 |

Coal Field Information Printout for: PA - Pennsylvania

| Location | | County | | Code Number | | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------------------|-----------|----------|------------|-------------|----------|----------|-----------|----------|------------|-----------|
| Moisture | Volatiles | Fxd Crbn | Ash | Carbon | Hydrogen | Sulfur | Oxygen | Nitrogen | Free Swell | Hemi Temp |
| ----- | | | | | | | | | | |
| STRIP MINE, SBP COAL CO | | | BUTLER | 75.30 | W190589 | 2.10 | 405158 | 794644 | B | 09/01/88 |
| 3.30 | 36.20 | 54.40 | 9.40 | | 5.00 | | 6.80 | 1.40 | 13350 | 2192 |
| | | | | | | | | | 7.5 | |
| ----- | | | | | | | | | | |
| STRIP MINE | | | BUTLER | 71.50 | W202056 | 1.30 | 405220 | 794820 | B | 09/01/88 |
| 2.60 | 33.10 | 52.70 | 14.20 | | 4.60 | | 7.10 | 1.30 | 12640 | 2723 |
| | | | | | | | | | 5.0 | |
| ----- | | | | | | | | | | |
| STRIP MINE | | | BUTLER | 68.30 | W188860 | 1.40 | 405535 | 794525 | B | 09/01/88 |
| 1.50 | 30.50 | 53.20 | 16.30 | | 4.60 | | 8.20 | 1.20 | 12110 | 2732 |
| | | | | | | | | | 3.5 | |
| ----- | | | | | | | | | | |
| WEST FREEDOM MINING CO STRIP | | | BUTLER | 74.20 | W189192 | 1.20 | 405538 | 794529 | B | 09/01/88 |
| 2.70 | 34.20 | 55.40 | 10.40 | | 4.80 | | 8.00 | 1.40 | 13230 | 2579 |
| | | | | | | | | | 6.0 | |
| ----- | | | | | | | | | | |
| WEST FREEDOM MINING CO STRIP | | | BUTLER | 76.70 | W189186 | 1.90 | 405538 | 794929 | B | 09/01/88 |
| 2.40 | 34.40 | 58.80 | 6.80 | | 5.00 | | 8.20 | 1.40 | 13700 | 2192 |
| | | | | | | | | | 6.0 | |
| ----- | | | | | | | | | | |
| BENJAMIN COAL CO STRIP MINE | | | CLEARFIELD | 79.20 | W189247 | 0.60 | 405600 | 783923 | B | 09/01/88 |
| 1.40 | 26.90 | 63.60 | 9.50 | | 4.80 | | 4.40 | 1.50 | 14010 | 2588 |
| | | | | | | | | | 9.0 | |
| ----- | | | | | | | | | | |
| SIMCA MINING CO STRIP MINE | | | CLEARFIELD | 72.10 | W189224 | 5.50 | 405735 | 782503 | B | 09/01/88 |
| 0.70 | 20.40 | 63.10 | 16.50 | | 4.10 | | 0.80 | 1.00 | 12680 | 2066 |
| | | | | | | | | | 9.0 | |
| ----- | | | | | | | | | | |
| SHALE HILL COAL CO STRIP | | | CLEARFIELD | 62.90 | W189241 | 4.50 | 405737 | 783505 | B | 09/01/88 |
| 1.40 | 19.00 | 55.90 | 25.10 | | 3.50 | | 3.10 | 0.90 | 11170 | 2462 |
| | | | | | | | | | 7.5 | |
| ----- | | | | | | | | | | |
| SIMCA MINING CO STRIP MINE | | | CLEARFIELD | 72.80 | W189223 | 3.30 | 405738 | 782504 | B | 09/01/88 |
| 0.70 | 21.30 | 62.50 | 16.20 | | 4.30 | | 2.30 | 1.10 | 12830 | 2426 |
| | | | | | | | | | 9.0 | |
| ----- | | | | | | | | | | |
| MCDONALD LAND & MINING STRIP | | | CLEARFIELD | 69.40 | W189250 | 3.90 | 410131 | 783854 | B | 09/01/88 |
| 1.20 | 25.50 | 55.50 | 19.00 | | 4.20 | | 2.40 | 1.10 | 12190 | 2381 |
| | | | | | | | | | 4.0 | |
| ----- | | | | | | | | | | |
| MCDONALD LAND & MINING STRIP | | | CLEARFIELD | 83.00 | W189251 | 1.60 | 410132 | 783857 | B | 09/01/88 |
| 2.70 | 29.70 | 65.40 | 4.90 | | 4.90 | | 4.40 | 1.20 | 14660 | 2138 |
| | | | | | | | | | 8.5 | |
| ----- | | | | | | | | | | |
| BENJAMIN COAL CO STRIP MINE | | | CLEARFIELD | 79.60 | W189243 | 1.40 | 410145 | 784318 | B | 09/01/88 |
| 1.20 | 30.00 | 61.10 | 8.90 | | 5.00 | | 3.90 | 1.20 | 14070 | 2453 |
| | | | | | | | | | 8.0 | |
| ----- | | | | | | | | | | |
| BENJAMIN COAL CO STRIP MINE | | | CLEARFIELD | 78.10 | W189244 | 2.30 | 410146 | 784316 | B | 09/01/88 |
| 3.00 | 25.80 | 65.20 | 9.00 | | 4.60 | | 4.70 | 1.30 | 13820 | 2282 |
| | | | | | | | | | 9.0 | |
| ----- | | | | | | | | | | |
| SHAWVILLE COAL CO STRIP MINE | | | CLEARFIELD | 69.80 | W189232 | 4.60 | 410212 | 782338 | B | 09/01/88 |
| 3.30 | 21.80 | 59.50 | 18.70 | | 4.00 | | 1.90 | 1.00 | 12290 | 2183 |
| | | | | | | | | | 8.0 | |
| ----- | | | | | | | | | | |
| MCDONALD LAND & MINING STRIP | | | CLEARFIELD | 75.50 | W189248 | 1.90 | 410215 | 783901 | B | 09/01/88 |
| 1.50 | 26.20 | 61.00 | 12.80 | | 4.40 | | 4.20 | 1.20 | 13250 | 2570 |
| | | | | | | | | | 6.0 | |
| ----- | | | | | | | | | | |
| MANOR NO 44 MINE | | | CLEARFIELD | 70.30 | W187046 | 6.70 | 410514 | 781709 | B | 09/01/88 |
| 1.70 | 40.90 | 45.20 | 13.90 | | 5.00 | | 3.10 | 1.00 | 12420 | 2048 |
| | | | | | | | | | 5.0 | |

Coal Field Information Printout for: PA - Pennsylvania

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | -Code Number | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------------------|----------|-----------|----------|-----------|--------|----------|--------------|--------|----------|-----------|-----------|------------|-----------|
| | | | | Ash | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| NASTASI COAL CO STRIP MINE | 3.30 | 38.90 | 55.10 | BUTLER | 77.20 | 5.20 | W189189 | 2.90 | 410542 | 794743 | B | 13740 | 09/01/88 |
| | | | | | | | | | 7.10 | 1.60 | | 6.5 | 2246 |
| NASTASI COAL CO STRIP MINE | 2.60 | 41.50 | 48.40 | BUTLER | 74.20 | 5.40 | W189213 | 2.90 | 410542 | 794746 | B | 13360 | 09/01/88 |
| | | | | | | | | | 5.90 | 1.50 | | 7.5 | 2183 |
| ALVIN GEARHART STRIP MINE | 1.70 | 36.50 | 53.80 | JEFFERSON | 75.10 | 5.10 | W189215 | 1.60 | 410555 | 791233 | B | 13540 | 09/01/88 |
| | | | | | | | | | 7.00 | 1.50 | | 8.0 | 2534 |
| ALVIN GEARHART STRIP MINE | 2.70 | 35.30 | 61.50 | JEFFERSON | 81.40 | 5.30 | W189202 | 1.10 | 410556 | 791233 | B | 14470 | 09/01/88 |
| | | | | | | | | | 7.40 | 1.60 | | 7.5 | 2264 |
| DEEP MINE | 4.30 | 31.20 | 60.60 | JEFFERSON | 73.00 | 4.60 | W188856 | 0.60 | 410812 | 785224 | B | 12500 | 09/01/88 |
| | | | | | | | | | 12.30 | 1.30 | | 0.5 | 2678 |
| STRIP MINE, STAHLMAN COAL CO | 1.90 | 39.30 | 48.30 | JEFFERSON | 72.40 | 4.90 | W190387 | 6.20 | 410816 | 791013 | B | 13180 | 09/01/88 |
| | | | | | | | | | 3.00 | 1.10 | | 7.0 | 2066 |
| LUCAS COAL CO STRIP MINE | 1.10 | 34.20 | 39.40 | BUTLER | 56.50 | 4.30 | W189195 | 7.40 | 410906 | 794409 | B | 10430 | 09/01/88 |
| | | | | | | | | | 4.40 | 1.00 | | 4.5 | 2300 |
| LUCAS COAL CO STRIP MINE | 1.90 | 38.30 | 56.30 | BUTLER | 79.00 | 5.40 | W189220 | 2.40 | 410906 | 794410 | B | 14250 | 09/01/88 |
| | | | | | | | | | 6.40 | 1.40 | | 7.0 | 2138 |
| CLARION REALTY STRIP MINE | 2.00 | 36.20 | 38.20 | VENANGO | 56.00 | 4.00 | W190595 | 13.30 | 411245 | 794104 | B | 10130 | 09/01/88 |
| | | | | | | | | | 0.30 | 0.80 | | 5.5 | 2048 |
| STRIP MINE | 1.40 | 35.30 | 54.10 | ELK | 74.60 | 5.10 | W188864 | 1.90 | 411706 | 784628 | B | 13410 | 09/01/88 |
| | | | | | | | | | 6.20 | 1.60 | | 0.0 | 2174 |
| STRIP MINE | 1.00 | 38.20 | 53.60 | ELK | 76.20 | 5.30 | W188863 | 3.10 | 411708 | 784629 | B | 13790 | 09/01/88 |
| | | | | | | | | | 5.60 | 1.60 | | 0.0 | 2174 |
| STRIP MINE | 2.90 | 31.60 | 58.20 | ELK | 74.10 | 4.70 | W188861 | 0.60 | 411935 | 784205 | B | 12920 | 09/01/88 |
| | | | | | | | | | 9.30 | 1.10 | | 0.0 | 2516 |
| STRIP MINE | 1.60 | 30.60 | 57.00 | ELK | 72.50 | 4.70 | W188862 | 0.50 | 411937 | 784204 | B | 12860 | 09/01/88 |
| | | | | | | | | | 8.50 | 1.40 | | 0.0 | 2912 |

Coal Field Information Printout for

TN - Tennessee

Coal Field Information Printout for: TN - Tennessee

| Location | Moisture | Volatiles | Fxd Crbn | Ash | County | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------------------------|----------|-----------|----------|-------|------------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| ALLEN COAL CO | 2.90 | 28.30 | 69.20 | 2.50 | MARION | 85.30 | W193641 | 0.80 | 345959 | 853331 | B | 15280 | 09/01/88 |
| | | | | | | | 5.30 | | 4.50 | 1.60 | | 9.0 | 2435 |
| FOUR SEASONS COAL CO | 2.10 | 28.70 | 62.80 | 8.50 | GRUNDY | 77.80 | W188906 | 0.50 | 351740 | 854405 | B | 13650 | 09/01/88 |
| | | | | | | | 5.10 | | 6.80 | 1.30 | | 3.5 | 2804 |
| PETROLEUMS ENERGY SERV INC | 3.50 | 26.30 | 64.70 | 9.00 | MARION | 78.10 | W193643 | 0.60 | 351742 | 853215 | B | 13750 | 09/01/88 |
| | | | | | | | 4.70 | | 6.00 | 1.60 | | 4.5 | 2804 |
| PIONEER COAL CO | 1.30 | 32.60 | 57.40 | 10.00 | BLEDSE | 75.90 | W188912 | 2.70 | 352842 | 851304 | B | 13650 | 09/01/88 |
| | | | | | | | 5.10 | | 5.20 | 1.10 | | 7.5 | 2084 |
| SOUTHERN ENERGY RES CO | 4.20 | 29.10 | 62.90 | 8.00 | SEQUATCHIE | 78.10 | W193639 | 0.60 | 353012 | 853212 | B | 13850 | 09/01/88 |
| | | | | | | | 4.80 | | 6.90 | 1.60 | | 5.0 | 2804 |
| LUCKY CUMBERLAND COAL CO | 1.70 | 34.50 | 58.40 | 7.10 | BLEDSE | 78.00 | W193634 | 3.40 | 353014 | 852219 | B | 14130 | 09/01/88 |
| | | | | | | | 5.00 | | 5.10 | 1.40 | | 8.5 | 2165 |
| LAMB CREEK COAL CO | 1.60 | 26.10 | 54.40 | 19.50 | BLEDSE | 68.00 | W193645 | 1.00 | 353038 | 852017 | B | 12060 | 09/01/88 |
| | | | | | | | 4.30 | | 5.90 | 1.30 | | 4.0 | 2732 |
| SAUNDERS COAL CO | 2.00 | 27.80 | 64.90 | 7.30 | BLEDSE | 79.70 | W193642 | 0.90 | 353041 | 852019 | B | 14140 | 09/01/88 |
| | | | | | | | 4.90 | | 5.70 | 1.50 | | 9.0 | 2804 |
| STATE PRISON FARM | 39.60 | 39.40 | 21.00 | 39.60 | LAUDERDALE | 42.50 | W196654 | 1.50 | 353930 | 894500 | L | 7640 | 09/01/88 |
| | | | | | | | 3.80 | | 12.30 | 0.30 | | 0.0 | 2806 |
| JACKSON MINING CO | 1.80 | 35.20 | 55.00 | 9.80 | ANDERSON | 75.10 | W193637 | 2.10 | 360326 | 842018 | B | 13560 | 09/01/88 |
| | | | | | | | 5.10 | | 6.10 | 1.80 | | 4.5 | 2606 |
| G&B COAL CO | 2.40 | 36.20 | 60.50 | 3.30 | MORGAN | 81.30 | W188916 | 0.60 | 360618 | 842510 | B | 14410 | 09/01/88 |
| | | | | | | | 5.30 | | 8.00 | 1.50 | | 3.0 | 2444 |
| MOUNTCO COAL CO | 2.70 | 36.30 | 59.90 | 3.80 | CAMPBELL | 80.60 | W193636 | 0.70 | 360735 | 842106 | B | 14390 | 09/01/88 |
| | | | | | | | 5.20 | | 8.00 | 1.70 | | 4.5 | 2408 |
| DEEP HOLLOW COAL CO | 1.70 | 36.60 | 58.40 | 5.00 | ANDERSON | 80.30 | W188955 | 1.10 | 360739 | 841524 | B | 14190 | 09/01/88 |
| | | | | | | | 5.30 | | 6.30 | 2.00 | | 5.5 | 2399 |
| LITTLE T COAL CO | 4.00 | 36.80 | 59.70 | 3.50 | ANDERSON | 80.90 | W193653 | 1.00 | 360821 | 842122 | B | 14400 | 09/01/88 |
| | | | | | | | 5.20 | | 7.70 | 1.70 | | 2.5 | 2264 |
| LITTLE T COAL CO | 2.50 | 34.40 | 49.70 | 15.90 | ANDERSON | 69.50 | W193655 | 0.90 | 360845 | 842120 | B | 12410 | 09/01/88 |
| | | | | | | | 4.60 | | 7.70 | 1.40 | | 3.5 | 2804 |
| H&B MINING CO | 2.50 | 35.20 | 61.50 | 3.30 | ANDERSON | 81.30 | W193638 | 0.60 | 360906 | 841811 | B | 14500 | 09/01/88 |
| | | | | | | | 5.40 | | 7.80 | 1.60 | | 3.5 | 2345 |

Coal Field Information Printout for: TN - Tennessee

| Location | Moisture | Volatiles | Fxd Crbn | Ash | County | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------------------|----------|-----------|----------|-------|----------|--------|-----------------|--------|-----------------|----------------|-----------|--------------|------------------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| J&M COAL CO | 2.30 | 36.60 | 61.30 | 2.10 | ANDERSON | 82.90 | W193649 5.50 | 0.90 | 360552 6.60 | 842020 2.00 | B | 14860 5.5 | 09/01/88 2408 |
| H&W COAL CO | 1.70 | 37.80 | 53.60 | 8.60 | ANDERSON | 73.50 | W188917 5.20 | 3.70 | 361049 7.60 | 842136 1.40 | B | 13340 4.5 | 09/01/88 2075 |
| PHILLIPS COAL CO | 2.00 | 33.80 | 58.30 | 7.90 | ANDERSON | 77.00 | W193657 5.30 | 1.70 | 361058 6.30 | 841720 1.80 | B | 13880 5.5 | 09/01/88 2543 |
| CUMBERLAND COAL CORP | 4.60 | 33.80 | 63.20 | 3.00 | ANDERSON | 81.20 | W13658 5.30 | 0.80 | 361106 8.00 | 842416 1.70 | B | 14420 1.5 | 09/01/88 2444 |
| PREMIUM COAL CO | 2.60 | 39.70 | 57.70 | 2.60 | ANDERSON | 77.10 | W193646 5.60 | 0.70 | 361108 11.80 | 842345 2.20 | B | 14590 4.5 | 09/01/88 2552 |
| CUMBERLAND COAL CORP | 2.30 | 38.10 | 49.90 | 12.00 | SCOTT | 72.10 | W193659 5.00 | 2.90 | 361125 6.40 | 842355 1.60 | B | 13060 5.0 | 09/01/88 2354 |
| QUEEN ANNE COAL CO | 1.70 | 37.30 | 51.10 | 11.60 | CAMPBELL | 73.80 | W188958 5.30 | 0.70 | 361138 6.80 | 841501 1.80 | B | 13100 4.5 | 09/01/88 2552 |
| ALROSHA COAL CO | 2.60 | 33.70 | 43.70 | 22.60 | ANDERSON | 61.10 | W193648 4.40 | 5.30 | 361237 5.30 | 842137 1.30 | B | 11160 3.5 | 09/01/88 2426 |
| ALROSHA COAL CO | 1.80 | 35.00 | 55.80 | 9.20 | ANDERSON | 74.80 | W193656 5.30 | 2.50 | 361238 6.50 | 842105 1.70 | B | 13580 6.0 | 09/01/88 2219 |
| EARL&RICKY COAL CO | 2.70 | 33.20 | 46.70 | 20.10 | CAMPBELL | 66.10 | W188954 4.30 | 0.90 | 361252 7.20 | 842117 1.40 | B | 11490 1.5 | 09/01/88 2912 |
| JIM POTTER COAL CO | 0.70 | 22.30 | 58.60 | 19.10 | CAMPBELL | 69.20 | W193651 4.40 | 4.50 | 361323 1.60 | 841930 1.20 | B | 12430 9.0 | 09/01/88 2210 |
| P&M COAL CO | 3.00 | 36.80 | 58.10 | 5.10 | CAMPBELL | 79.20 | W188957 5.40 | 0.60 | 361552 8.20 | 841329 1.50 | B | 13950 1.5 | 09/01/88 2480 |
| C R LEWIS COAL CO | 2.20 | 34.50 | 52.20 | 13.30 | MORGAN | 71.10 | W188909 5.10 | 1.50 | 361606 7.40 | 843718 1.60 | B | 12810 5.5 | 09/01/88 2552 |
| MASH INC | 2.60 | 33.50 | 49.90 | 16.60 | SCOTT | 65.50 | W188910 4.60 | 4.70 | 361611 7.50 | 843103 1.10 | B | 11830 1.5 | 09/01/88 2138 |
| CMC COAL CO | 1.60 | 36.70 | 47.10 | 16.20 | CAMPBELL | 66.40 | W188964 4.70 | 3.60 | 361709 7.60 | 841436 1.50 | B | 12060 4.0 | 09/01/88 2183 |
| BLACK JEWEL COAL CO | 1.50 | 39.70 | 54.90 | 5.40 | SCOTT | 79.00 | W188915 5.50 | 2.70 | 361922 6.10 | 843450 1.30 | B | 14370 6.5 | 09/01/88 2291 |

Coal Field Information Printout for: TN - Tennessee

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------------|----------|-----------|----------|-----------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| P&H EQUIP CO | 3.90 | 36.40 | 53.60 | FENTRESS | 10.00 | 72.60 | 5.00 | 2.90 | 362405 | 845556 | B | 13140 | 09/01/88 |
| | | | | | | | | | 7.90 | 1.60 | | 4.5 | 2525 |
| P&H COAL CO | 2.90 | 32.10 | 33.50 | FENTRESS | 34.40 | 51.50 | 3.90 | 1.60 | 362507 | 845856 | B | 9140 | 09/01/88 |
| | | | | | | | | | 7.70 | 0.90 | | 1.0 | 2912 |
| HELEWOOD EXCAVATING CO | 2.20 | 35.70 | 59.50 | SCOTT | 4.80 | 79.10 | 5.50 | 1.40 | 362645 | 843303 | B | 14090 | 09/01/88 |
| | | | | | | | | | 7.80 | 1.40 | | 5.0 | 2264 |
| P&H EQUIP CO | 2.90 | 34.40 | 62.60 | CAMPBELL | 3.00 | 80.70 | 5.60 | 0.90 | 362659 | 840718 | B | 14220 | 09/01/88 |
| | | | | | | | | | 8.50 | 1.30 | | 1.5 | 2138 |
| LEX MINING CO | 3.00 | 39.40 | 55.10 | CAMPBELL | 5.50 | 76.30 | 5.50 | 2.70 | 362822 | 841122 | B | 13770 | 09/01/88 |
| | | | | | | | | | 8.60 | 1.40 | | 5.0 | 2030 |
| BIG H COAL CO | 2.90 | 39.50 | 57.80 | CAMPBELL | 2.70 | 81.10 | 5.70 | 0.70 | 362840 | 841127 | B | 14370 | 09/01/88 |
| | | | | | | | | | 8.00 | 1.80 | | 4.5 | 2318 |
| DAN BRANCH COAL CO | 3.00 | 39.80 | 55.70 | CAMPBELL | 4.50 | 78.40 | 5.30 | 2.30 | 362900 | 841654 | B | 14020 | 09/01/88 |
| | | | | | | | | | 7.40 | 2.10 | | 5.5 | 2120 |
| DAN BRANCH COAL CO | 3.40 | 35.30 | 53.10 | CAMPBELL | 11.60 | 72.10 | 4.90 | 1.40 | 362930 | 841608 | B | 12740 | 09/01/88 |
| | | | | | | | | | 8.30 | 1.70 | | 2.0 | 2552 |
| FOUR LEAF COAL CO | 2.30 | 38.00 | 60.40 | CLAIBORNE | 1.60 | 82.80 | 5.60 | 0.50 | 363102 | 835211 | B | 14790 | 09/01/88 |
| | | | | | | | | | 7.50 | 2.00 | | 5.0 | 2624 |
| METZLER COAL CO | 4.40 | 34.50 | 62.60 | CAMPBELL | 2.90 | 79.50 | 5.20 | 1.70 | 363124 | 840847 | B | 14200 | 09/01/88 |
| | | | | | | | | | 8.70 | 2.00 | | 2.5 | 2156 |
| JAMES SPUR COAL CO | 2.10 | 34.70 | 62.50 | CLAIBORNE | 2.80 | 81.90 | 5.50 | 0.80 | 363233 | 835346 | B | 14740 | 09/01/88 |
| | | | | | | | | | 7.20 | 1.80 | | 5.0 | 2804 |
| DUPONT SMITH COAL CO | 3.60 | 36.60 | 60.00 | CAMPBELL | 3.40 | 79.60 | 5.40 | 0.90 | 363235 | 840327 | B | 14150 | 09/01/88 |
| | | | | | | | | | 9.00 | 1.70 | | 3.0 | 2354 |
| LONGWA INC | 1.90 | 41.30 | 50.50 | SCOTT | 8.20 | 73.00 | 5.30 | 5.10 | 363235 | 842950 | B | 13430 | 09/01/88 |
| | | | | | | | | | 6.70 | 1.70 | | 5.0 | 2084 |
| BURL LAMBDIN COAL CO | 2.50 | 38.50 | 58.10 | CLAIBORNE | 3.40 | 80.40 | 5.60 | 1.20 | 363249 | 835812 | B | 14380 | 09/01/88 |
| | | | | | | | | | 7.80 | 1.60 | | 5.0 | 2102 |
| THACKER COAL CO | 2.40 | 35.20 | 62.10 | CLAIBORNE | 2.70 | 80.70 | 5.60 | 0.80 | 363320 | 835420 | B | 14520 | 09/01/88 |
| | | | | | | | | | 8.80 | 1.40 | | 4.0 | 2687 |
| M&K COAL CO | 2.00 | 40.30 | 50.70 | CAMPBELL | 9.00 | 72.60 | 5.00 | 4.40 | 363349 | 841018 | B | 13150 | 09/01/88 |
| | | | | | | | | | 7.70 | 1.30 | | 4.0 | 2120 |

Coal Field Information Printout for: TN - Tennessee

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------------|----------|-----------|----------|-----------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | Ash | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| SHATTUCK COAL CO | 2.20 | 34.90 | 61.60 | CLAIBORNE | 80.50 | 5.50 | 1.30 | 363424 | 835720 | B | 14490 | 09/01/88 |
| | | | | | | | | 7.90 | 1.30 | | 6.0 | 2408 |
| SAM COAL CO | 2.40 | 37.20 | 60.40 | CLAIBORNE | 81.30 | 5.60 | 0.60 | 363437 | 834621 | B | 14680 | 09/01/88 |
| | | | | | | | | 7.90 | 2.20 | | 3.5 | 2651 |
| SAM COAL CO | 2.20 | 42.20 | 56.40 | CLAIBORNE | 82.50 | 5.60 | 0.60 | 363438 | 834620 | B | 14850 | 09/01/88 |
| | | | | | | | | 7.90 | 2.00 | | 5.0 | 2714 |
| SAM COAL CO | 2.20 | 39.20 | 59.20 | CLAIBORNE | 83.30 | 5.60 | 0.80 | 363443 | 834649 | B | 14950 | 09/01/88 |
| | | | | | | | | 6.80 | 1.90 | | 4.5 | 2606 |
| DALE DAUGHERTY COAL CO | 2.50 | 32.50 | 49.20 | SCOTT | 65.90 | 4.50 | 1.50 | 363533 | 841810 | B | 11800 | 09/01/88 |
| | | | | | | | | 8.50 | 1.30 | | 1.5 | 2777 |
| ROSS COAL CO | 3.00 | 36.50 | 58.00 | SCOTT | 74.00 | 5.00 | 5.30 | 363535 | 841800 | B | 13750 | 09/01/88 |
| | | | | | | | | 8.70 | 1.50 | | 3.0 | 2561 |

Coal Field Information Printout for

TX - Texas

Coal Field Information Printout for: TX - Texas

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------|----------|-----------|----------|-----------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| 29.20 | 44.70 | 38.40 | 16.90 | MILAM | 59.10 | 59.10 | 4.60 | 1.40 | 303417 | 970216 | L | 10210 | 09/01/88 |
| | | | | | | | | | 16.70 | 1.30 | | 0.0 | 2444 |
| 21.50 | 45.80 | 42.70 | 11.50 | MILAM | 64.30 | 64.30 | 4.90 | 1.10 | 303440 | 970206 | L | 11070 | 09/01/88 |
| | | | | | | | | | 16.90 | 1.30 | | 0.0 | 2183 |
| 25.90 | 48.60 | 40.50 | 10.90 | MILAM | 64.50 | 64.50 | 5.00 | 1.30 | 303445 | 970155 | L | 11300 | 09/01/88 |
| | | | | | | | | | 17.10 | 1.20 | | 0.0 | 2129 |
| 18.60 | 49.50 | 39.40 | 11.10 | MILAM | 64.10 | 64.10 | 5.00 | 1.20 | 303514 | 970201 | L | 11270 | 09/01/88 |
| | | | | | | | | | 17.40 | 1.20 | | 0.0 | 2156 |
| 27.90 | 44.00 | 38.40 | 17.60 | MILAM | 58.80 | 58.80 | 4.60 | 1.40 | 303540 | 970156 | L | 10220 | 09/01/88 |
| | | | | | | | | | 16.50 | 1.10 | | 0.0 | 2435 |
| 26.00 | 46.90 | 43.20 | 9.90 | FREESTONE | 64.10 | 64.10 | 4.70 | 0.90 | 314533 | 960859 | L | 10990 | 09/01/88 |
| | | | | | | | | | 19.20 | 1.20 | | 0.0 | 2111 |
| 28.50 | 44.80 | 42.90 | 12.30 | FREESTONE | 64.40 | 64.40 | 4.70 | 0.80 | 314545 | 960917 | L | 10710 | 09/01/88 |
| | | | | | | | | | 16.70 | 1.10 | | 0.0 | 2138 |
| 27.90 | 45.50 | 44.00 | 10.50 | FREESTONE | 65.00 | 65.00 | 4.90 | 1.00 | 314549 | 960921 | L | 11210 | 09/01/88 |
| | | | | | | | | | 17.50 | 1.10 | | 0.0 | 2138 |
| B-2 PIT | 45.50 | 44.00 | 10.50 | FREESTONE | 65.00 | 65.00 | 4.90 | 1.00 | 314645 | 960936 | L | 11210 | 09/01/88 |
| | | | | | | | | | 17.50 | 1.10 | | 0.0 | 2138 |
| B-1 PIT | 44.80 | 42.90 | 12.30 | FREESTONE | 64.40 | 64.40 | 4.70 | 0.80 | 314655 | 961006 | L | 10710 | 09/01/88 |
| | | | | | | | | | 16.70 | 1.10 | | 0.0 | 2138 |
| 33.10 | 44.80 | 45.30 | 9.90 | HARRISON | 64.40 | 64.40 | 4.50 | 1.50 | 322424 | 942628 | L | 11060 | 09/01/88 |
| | | | | | | | | | 18.80 | 0.90 | | 0.0 | 1976 |
| 31.90 | 42.80 | 41.30 | 15.90 | HARRISON | 59.70 | 59.70 | 4.30 | 1.50 | 322425 | 942627 | L | 10230 | 09/01/88 |
| | | | | | | | | | 17.40 | 1.20 | | 0.0 | 2183 |
| 31.90 | 42.80 | 41.30 | 15.90 | HARRISON | 59.70 | 59.70 | 4.30 | 1.50 | 322427 | 942626 | L | 10230 | 09/01/88 |
| | | | | | | | | | 17.40 | 1.20 | | 0.0 | 2183 |
| 29.60 | 41.20 | 35.80 | 23.00 | TITUS | 55.40 | 55.40 | 4.10 | 0.70 | 331105 | 950513 | L | 9450 | 09/01/88 |
| | | | | | | | | | 15.80 | 1.00 | | 0.0 | 2210 |
| 29.60 | 41.20 | 35.80 | 23.00 | TITUS | 55.40 | 55.40 | 4.10 | 0.70 | 331105 | 950517 | L | 9450 | 09/01/88 |
| | | | | | | | | | 15.80 | 1.00 | | 0.0 | 2210 |

Coal Field Information Printout for

Ut - Utah

Coal Field Information Printout for: UT - Utah

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------------|----------|-----------|----------|----------|-----|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| 19.90 | 42.60 | 47.00 | 10.40 | KANE | | 68.80 | D169559 | 4.70 | 371500 | 1121500 | B | 11910 | 09/01/88 |
| | | | | | | | | 1.70 | 13.20 | 1.20 | | 0.0 | 0 |
| 20.60 | 40.10 | 50.60 | 9.30 | KANE | | 68.70 | D169765 | 4.80 | 371500 | 1122230 | B | 12000 | 09/01/88 |
| | | | | | | | | 1.10 | 14.70 | 1.40 | | 0.0 | 0 |
| 19.00 | 36.40 | 51.90 | 11.70 | KANE | | 68.30 | D183136 | 4.40 | 372220 | 1122040 | B | 11730 | 09/01/88 |
| | | | | | | | | 0.60 | 13.80 | 1.20 | | 0.0 | 2390 |
| 23.40 | 36.70 | 45.20 | 18.10 | KANE | | 58.90 | D183134 | 4.30 | 372455 | 1121215 | B | 10530 | 09/01/88 |
| | | | | | | | | 4.60 | 12.90 | 1.20 | | 0.0 | 2228 |
| 24.40 | 36.60 | 39.30 | 24.10 | GARFIELD | | 56.70 | D183137 | 4.10 | 373310 | 1120910 | B | 9830 | 09/01/88 |
| | | | | | | | | 0.80 | 13.20 | 1.10 | | 0.0 | 2804 |
| 25.90 | 36.00 | 50.20 | 13.80 | GARFIELD | | 65.80 | D183138 | 4.50 | 373320 | 1120855 | B | 11440 | 09/01/88 |
| | | | | | | | | 2.20 | 12.50 | 1.20 | | 0.0 | 2156 |
| 14.70 | 32.10 | 35.90 | 32.00 | GARFIELD | | 51.50 | D183139 | 3.80 | 375650 | 1105850 | B | 9040 | 09/01/88 |
| | | | | | | | | 0.50 | 11.10 | 1.10 | | 0.0 | 2804 |
| 9.50 | 38.70 | 50.60 | 10.70 | GARFIELD | | 66.90 | D178173 | 4.60 | 380706 | 1105758 | B | 11580 | 09/01/88 |
| | | | | | | | | 0.80 | 16.20 | 0.80 | | 0.0 | 2174 |
| 4.90 | 35.20 | 51.20 | 13.60 | WAYNE | | 65.50 | D178172 | 4.70 | 382828 | 1105440 | B | 11480 | 09/01/88 |
| | | | | | | | | 2.70 | 12.20 | 1.30 | | 0.0 | 2120 |
| 8.30 | 37.20 | 47.80 | 15.00 | WAYNE | | 65.80 | D183141 | 4.80 | 382910 | 1105430 | B | 11620 | 09/01/88 |
| | | | | | | | | 1.70 | 11.40 | 1.30 | | 0.0 | 2678 |
| 11.90 | 39.30 | 50.80 | 9.90 | SEVIER | | 67.90 | D178166 | 4.90 | 383340 | 1112705 | B | 11920 | 09/01/88 |
| | | | | | | | | 2.60 | 13.80 | 0.90 | | 0.0 | 2030 |
| 13.70 | 29.70 | 30.50 | 39.80 | SEVIER | | 43.50 | D178169 | 3.50 | 384220 | 1112800 | B | 7460 | 09/01/88 |
| | | | | | | | | 0.70 | 12.00 | 0.50 | | 0.0 | 0 |
| EMERY MINE | 3.20 | 40.70 | 50.10 | EMERY | | 73.00 | D175518 | 5.10 | 384615 | 1111505 | B | 12890 | 09/01/88 |
| | | | | | | | | 1.20 | 10.30 | 1.20 | | 1.0 | 2093 |
| CONVULSION CANYON MINE | 7.70 | 41.80 | 42.60 | SEVIER | | 65.50 | D174676 | 4.70 | 385456 | 1112500 | B | 11520 | 09/01/88 |
| | | | | | | | | 0.90 | 12.10 | 1.20 | | 0.0 | 2246 |
| W AMER ENERGY CORP | 5.40 | 40.80 | 47.60 | GRAND | | 70.20 | D173479 | 5.10 | 390225 | 1094335 | B | 12460 | 09/01/88 |
| | | | | | | | | 0.70 | 10.80 | 1.60 | | 0.0 | 0 |
| 4.30 | 41.00 | 50.50 | 8.50 | EMERY | | 72.00 | D176980 | 5.40 | 391136 | 1111310 | B | 12700 | 09/01/88 |
| | | | | | | | | 0.60 | 12.20 | 1.30 | | 1.0 | 2192 |

Coal Field Information Printout for: UT - Utah

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Code Number | | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------------------|----------|-----------|----------|--------|--------|-------------|--------|----------|-----------|-----------|------------|-----------|
| | | | | Ash | | Hydrogen | Sulfur | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| 2.30 | 45.30 | 46.70 | 8.00 | EMERY | 73.90 | D176976 | 0.80 | 391719 | 1111420 | B | 13380 | 09/01/88 |
| | | | | | | 5.90 | | 10.60 | 0.80 | | 1.0 | 2111 |
| DESERET MINE | | | | | | | | | | | | |
| 5.20 | 44.60 | 48.10 | 7.30 | EMERY | 74.10 | D174672 | 0.50 | 391905 | 1110603 | B | 13210 | 09/01/88 |
| | | | | | | 5.30 | | 11.30 | 1.50 | | 1.5 | 2354 |
| DESERET MINE | | | | | | | | | | | | |
| 3.10 | 43.50 | 46.70 | 9.80 | EMERY | 72.10 | D180000 | 0.50 | 391907 | 1110605 | B | 13000 | 09/01/88 |
| | | | | | | 5.40 | | 10.80 | 1.40 | | 1.0 | 2219 |
| 3.50 | 43.40 | 46.80 | 9.80 | EMERY | 72.00 | D178171 | 0.50 | 391910 | 1110722 | B | 12910 | 09/01/88 |
| | | | | | | 5.30 | | 11.50 | 0.90 | | 1.0 | 2192 |
| WILLBERG MINE | | | | | | | | | | | | |
| 4.60 | 43.50 | 48.70 | 7.80 | EMERY | 73.80 | D180005 | 0.50 | 391925 | 1110719 | B | 13270 | 09/01/88 |
| | | | | | | 5.40 | | 11.00 | 1.50 | | 1.0 | 2372 |
| 3.20 | 39.70 | 44.40 | 15.90 | EMERY | 67.00 | D178159 | 0.60 | 391940 | 1111126 | B | 12010 | 09/01/88 |
| | | | | | | 5.10 | | 10.30 | 1.10 | | 1.5 | 2543 |
| DEER CREEK MINE | | | | | | | | | | | | |
| 3.70 | 45.70 | 48.70 | 5.60 | EMERY | 76.20 | D174669 | 0.50 | 392125 | 1110710 | B | 13780 | 09/01/88 |
| | | | | | | 5.70 | | 10.50 | 1.50 | | 1.5 | 2129 |
| 3.00 | 45.40 | 43.80 | 10.80 | EMERY | 71.90 | D178155 | 0.80 | 392210 | 1111320 | B | 12940 | 09/01/88 |
| | | | | | | 5.70 | | 9.50 | 1.30 | | 1.0 | 2453 |
| 3.60 | 43.60 | 52.70 | 3.70 | EMERY | 77.00 | D178149 | 0.60 | 392455 | 1111416 | B | 13970 | 09/01/88 |
| | | | | | | 5.70 | | 11.90 | 1.10 | | 2.5 | 2129 |
| CO-OP MINE | | | | | | | | | | | | |
| 6.10 | 47.70 | 46.10 | 6.20 | EMERY | 76.00 | D174379 | 0.50 | 392505 | 1110705 | B | 13750 | 09/01/88 |
| | | | | | | 5.60 | | 10.30 | 1.40 | | 2.5 | 2246 |
| GENEVA MINE USSTEEL | | | | | | | | | | | | |
| 5.30 | 39.60 | 52.80 | 7.60 | EMERY | 75.30 | D173474 | 1.10 | 392740 | 1102112 | B | 13440 | 09/01/88 |
| | | | | | | 5.20 | | 9.20 | 1.60 | | 0.0 | 0 |
| KING MINE | | | | | | | | | | | | |
| 4.80 | 48.80 | 44.90 | 6.30 | EMERY | 74.90 | D174664 | 0.50 | 392750 | 1110100 | B | 13530 | 09/01/88 |
| | | | | | | 5.40 | | 11.40 | 1.50 | | 2.0 | 2102 |
| STAR POINT NO 1 MINE | | | | | | | | | | | | |
| 5.70 | 40.40 | 41.90 | 17.70 | CARBON | 64.50 | D174666 | 0.70 | 393125 | 1110245 | B | 11540 | 09/01/88 |
| | | | | | | 4.80 | | 10.90 | 1.40 | | 1.5 | 2408 |
| SUNNYSIDE MINE NO 1 | | | | | | | | | | | | |
| 3.00 | 40.20 | 54.10 | 5.70 | CARBON | 77.60 | D173473 | 1.20 | 393540 | 1102325 | B | 13780 | 09/01/88 |
| | | | | | | 5.30 | | 8.60 | 1.60 | | 0.0 | 0 |
| 4.90 | 47.80 | 44.40 | 7.80 | CARBON | 73.50 | D174663 | 0.40 | 394128 | 1110320 | B | 13360 | 09/01/88 |
| | | | | | | 5.80 | | 11.00 | 1.50 | | 1.5 | 2183 |
| VALLEY CAMP MINE | | | | | | | | | | | | |
| 6.50 | 49.50 | 46.50 | 4.00 | CARBON | 75.70 | D173472 | 0.70 | 394135 | 1110916 | B | 13550 | 09/01/88 |
| | | | | | | 5.60 | | 12.40 | 1.60 | | 0.0 | 0 |

Coal Field Information Printout for: UT - Utah

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|--------------------------|----------|-----------|----------|---------|-------|---------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| 2.20 | 36.90 | 55.00 | 8.10 | CARBON | 74.00 | D176984 | 5.10 | 0.60 | 394201 | 1103645 | B | 12900 | 09/01/88 |
| | | | | | | | | | 11.40 | 0.80 | | 1.0 | 2417 |
| ----- | | | | | | | | | | | | | |
| CARBON FUEL CO NO 3 MINE | | | | CARBON | 72.30 | D173476 | 5.40 | 0.60 | 394244 | 1105351 | B | 13010 | 09/01/88 |
| 2.80 | 45.20 | 44.80 | 10.00 | | | | | | 10.20 | 1.50 | | 0.0 | 0 |
| ----- | | | | | | | | | | | | | |
| 6.70 | 35.20 | 43.10 | 21.70 | DAGGETT | 56.80 | D166185 | 3.40 | 0.50 | 405230 | 1094500 | B | 9240 | 09/01/88 |
| | | | | | | | | | 16.70 | 0.90 | | 0.0 | 0 |

Coal Field Information Printout for

VA - Virginia

Coal Field Information Printout for: VA - Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------|----------|-----------|----------|--------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| UNDERGROUND MINE | | | | LEE | | | | | | | | | |
| 2.20 | 39.20 | 51.40 | 51.40 | LEE | 9.40 | 74.30 | 5.00 | 4.20 | 364644 | 830638 | B | 13370 | 09/01/88 |
| | | | | | | | | | 5.70 | 1.40 | | 3.5 | 1994 |
| DRILL CORE | | | | LEE | | | | | | | | | |
| 5.10 | 34.70 | 56.50 | 56.50 | LEE | 8.80 | 76.50 | 5.00 | 0.70 | 364905 | 830008 | B | 13580 | 09/01/88 |
| | | | | | | | | | 7.50 | 1.50 | | 4.0 | 2804 |
| DRILL CORE | | | | LEE | | | | | | | | | |
| 2.10 | 33.60 | 53.90 | 53.90 | LEE | 12.50 | 73.10 | 4.90 | 1.40 | 364918 | 825604 | B | 12950 | 09/01/88 |
| | | | | | | | | | 6.50 | 1.60 | | 4.0 | 2696 |
| DRILL CORE | | | | LEE | | | | | | | | | |
| 2.90 | 36.30 | 58.60 | 58.60 | LEE | 5.10 | 80.90 | 5.20 | 0.70 | 365011 | 825138 | B | 14400 | 09/01/88 |
| | | | | | | | | | 6.50 | 1.60 | | 5.0 | 2399 |
| UNDERGROUND MINE | | | | LEE | | | | | | | | | |
| 4.70 | 40.60 | 49.20 | 49.20 | LEE | 10.20 | 72.50 | 5.10 | 3.90 | 365012 | 825739 | B | 13200 | 09/01/88 |
| | | | | | | | | | 6.90 | 1.40 | | 4.0 | 2030 |
| DRILL CORE | | | | LEE | | | | | | | | | |
| 2.50 | 38.60 | 58.30 | 58.30 | LEE | 3.10 | 83.20 | 5.50 | 0.70 | 365113 | 825134 | B | 14850 | 09/01/88 |
| | | | | | | | | | 5.70 | 1.80 | | 7.0 | 2606 |
| DRILL CORE | | | | SCOTT | | | | | | | | | |
| 1.40 | 41.50 | 48.90 | 48.90 | SCOTT | 9.60 | 73.40 | 4.90 | 5.70 | 365117 | 823629 | B | 13660 | 09/01/88 |
| | | | | | | | | | 5.10 | 1.30 | | 4.5 | 1958 |
| SURFACE MINE | | | | LEE | | | | | | | | | |
| 3.40 | 37.30 | 57.90 | 57.90 | LEE | 4.80 | 80.40 | 5.40 | 0.60 | 365159 | 825533 | B | 14800 | 09/01/88 |
| | | | | | | | | | 7.20 | 1.60 | | 5.5 | 2651 |
| SURFACE MINE | | | | WISE | | | | | | | | | |
| 3.60 | 34.50 | 55.90 | 55.90 | WISE | 9.60 | 76.60 | 4.90 | 0.80 | 365300 | 824916 | B | 13580 | 09/01/88 |
| | | | | | | | | | 6.60 | 1.50 | | 5.5 | 2804 |
| UNDERGROUND | | | | WISE | | | | | | | | | |
| 3.40 | 35.50 | 55.00 | 55.00 | WISE | 9.50 | 76.70 | 5.20 | 0.70 | 365305 | 825203 | B | 13680 | 09/01/88 |
| | | | | | | | | | 6.50 | 1.40 | | 5.5 | 2804 |
| UNDERGROUND | | | | WISE | | | | | | | | | |
| 2.30 | 38.80 | 56.60 | 56.60 | WISE | 4.60 | 81.00 | 5.00 | 0.60 | 365331 | 825212 | B | 14530 | 09/01/88 |
| | | | | | | | | | 7.20 | 1.60 | | 6.0 | 2804 |
| UNDERGROUND | | | | WISE | | | | | | | | | |
| 2.00 | 33.00 | 50.60 | 50.60 | WISE | 16.40 | 70.80 | 4.80 | 0.80 | 365400 | 824739 | B | 12580 | 09/01/88 |
| | | | | | | | | | 5.70 | 1.50 | | 6.0 | 2804 |
| SURFACE MINE | | | | WISE | | | | | | | | | |
| 2.60 | 34.80 | 54.40 | 54.40 | WISE | 10.80 | 74.90 | 5.00 | 5.00 | 365411 | 822133 | B | 13700 | 09/01/88 |
| | | | | | | | | | 3.20 | 1.10 | | 7.0 | 2192 |
| SURFACE MINE | | | | WISE | | | | | | | | | |
| 1.50 | 33.40 | 51.40 | 51.40 | WISE | 15.20 | 72.10 | 4.60 | 1.20 | 365411 | 822140 | B | 12730 | 09/01/88 |
| | | | | | | | | | 5.50 | 1.40 | | 6.0 | 2300 |
| SURFACE MINE | | | | WISE | | | | | | | | | |
| 2.20 | 33.70 | 56.50 | 56.50 | WISE | 9.80 | 77.40 | 4.80 | 0.80 | 365422 | 822417 | B | 13780 | 09/01/88 |
| | | | | | | | | | 5.80 | 1.40 | | 7.0 | 2678 |
| UNDERGROUND | | | | WISE | | | | | | | | | |
| 1.50 | 33.60 | 53.80 | 53.80 | WISE | 12.60 | 74.50 | 4.90 | 1.20 | 365458 | 824949 | B | 13330 | 09/01/88 |
| | | | | | | | | | 5.20 | 1.60 | | 6.0 | 2759 |

Coal Field Information Printout for: VA - Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------|----------|-----------|----------|--------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| SURFACE | 3.60 | 22.20 | 66.60 | WISE | 11.20 | 76.50 | W203384 | 4.90 | 365506 | 822054 | B | 13450 | 09/01/88 |
| | | | | | | | | 0.90 | 5.00 | 1.50 | | 6.5 | 2507 |
| UNDERGROUND MINE | 1.60 | 32.40 | 53.40 | WISE | 14.20 | 73.40 | W215446 | 4.70 | 365520 | 822058 | B | 13000 | 09/01/88 |
| | | | | | | | | 1.10 | 5.10 | 1.50 | | 6.5 | 2678 |
| SURFACE MINE | 3.00 | 32.70 | 57.10 | WISE | 10.20 | 76.50 | W192697 | 4.80 | 365527 | 822111 | B | 13530 | 09/01/88 |
| | | | | | | | | 0.80 | 6.30 | 1.40 | | 4.0 | 2309 |
| SURFACE MINE | 1.90 | 38.30 | 55.90 | WISE | 5.80 | 79.80 | W198542 | 5.30 | 365542 | 824108 | B | 14240 | 09/01/88 |
| | | | | | | | | 1.60 | 5.90 | 1.60 | | 6.5 | 2183 |
| SURFACE | 3.30 | 32.90 | 50.60 | WISE | 16.50 | 70.60 | W203385 | 4.70 | 365555 | 824238 | B | 12540 | 09/01/88 |
| | | | | | | | | 0.80 | 6.10 | 1.30 | | 6.5 | 2912 |
| SURFACE MINE | 2.80 | 36.30 | 60.50 | WISE | 3.20 | 83.50 | W194855 | 5.30 | 365600 | 824847 | B | 14890 | 09/01/88 |
| | | | | | | | | 0.60 | 5.90 | 1.50 | | 8.5 | 2543 |
| UNDERGROUND MINE | 1.40 | 34.20 | 60.10 | WISE | 5.70 | 81.00 | W214248 | 5.20 | 365615 | 824913 | B | 14410 | 09/01/88 |
| | | | | | | | | 0.60 | 5.90 | 1.60 | | 8.5 | 2804 |
| UNDERGROUND MINE | 1.70 | 32.60 | 58.20 | WISE | 9.20 | 77.70 | W214244 | 4.90 | 365650 | 824815 | B | 13780 | 09/01/88 |
| | | | | | | | | 0.50 | 6.20 | 1.50 | | 8.0 | 2579 |
| SURFACE | 3.00 | 35.30 | 55.50 | WISE | 9.20 | 76.10 | W202130 | 5.00 | 365652 | 824007 | B | 13800 | 09/01/88 |
| | | | | | | | | 2.90 | 5.50 | 1.30 | | 8.5 | 2300 |
| SURFACE MINE | 3.80 | 35.00 | 62.60 | WISE | 2.40 | 83.60 | W194411 | 5.10 | 365653 | 823620 | B | 14990 | 09/01/88 |
| | | | | | | | | 0.90 | 6.30 | 1.70 | | 8.5 | 2156 |
| SURFACE MINE | 4.00 | 33.40 | 61.00 | WISE | 5.60 | 80.90 | W200484 | 5.30 | 365707 | 823612 | B | 14400 | 09/01/88 |
| | | | | | | | | 0.80 | 5.70 | 1.70 | | 8.0 | 2912 |
| SURFACE MINE | 2.40 | 35.00 | 60.00 | WISE | 5.00 | 81.90 | W196289 | 5.40 | 365709 | 823618 | B | 14700 | 09/01/88 |
| | | | | | | | | 0.70 | 5.30 | 1.70 | | 9.0 | 2651 |
| UNDERGROUND MINE | 1.60 | 33.20 | 58.70 | WISE | 8.10 | 78.40 | W214247 | 5.00 | 365709 | 825023 | B | 13900 | 09/01/88 |
| | | | | | | | | 0.80 | 6.10 | 1.60 | | 8.0 | 2777 |
| UNDERGROUND MINE | 1.20 | 35.60 | 60.00 | WISE | 4.40 | 82.30 | W214246 | 5.30 | 365714 | 824820 | B | 14690 | 09/01/88 |
| | | | | | | | | 0.70 | 5.70 | 1.60 | | 8.0 | 2723 |
| SURFACE MINE | 2.30 | 33.80 | 57.60 | WISE | 8.60 | 77.60 | W191066 | 5.20 | 365715 | 823254 | B | 13920 | 09/01/88 |
| | | | | | | | | 0.90 | 6.20 | 1.50 | | 9.0 | 2732 |
| SURFACE MINE | 3.40 | 36.20 | 61.20 | WISE | 2.60 | 83.20 | W191335 | 5.50 | 365715 | 823258 | B | 14760 | 09/01/88 |
| | | | | | | | | 1.10 | 6.40 | 1.20 | | 9.0 | 2129 |

Coal Field Information Printout for: VA - Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------|----------|-----------|----------|---------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| SURFACE MINE | 3.70 | 36.20 | 58.60 | WISE | 5.20 | 79.90 | 5.50 | 2.20 | 365717 | 823256 | B | 14390 | 09/01/88 |
| | | | | | | | W192603 | | 5.70 | 1.50 | | 9.0 | 2111 |
| SURFACE MINE | 3.90 | 36.20 | 58.10 | WISE | 5.70 | 80.00 | 5.30 | 1.10 | 365719 | 824217 | B | 14320 | 09/01/88 |
| | | | | | | | W208044 | | 6.30 | 1.60 | | 9.0 | 2651 |
| SURFACE MINE | 1.30 | 38.70 | 57.10 | WISE | 4.20 | 82.10 | 5.50 | 0.50 | 365721 | 823628 | B | 14710 | 09/01/88 |
| | | | | | | | W200486 | | 6.00 | 1.70 | | 6.5 | 2111 |
| SURFACE | 3.80 | 34.70 | 53.90 | WISE | 11.40 | 75.50 | 5.20 | 0.80 | 365722 | 824147 | B | 13500 | 09/01/88 |
| | | | | | | | W203387 | | 5.60 | 1.50 | | 8.0 | 2912 |
| SURFACE MINE | 3.90 | 38.60 | 55.20 | WISE | 6.20 | 78.90 | 5.60 | 2.70 | 365723 | 824104 | B | 14310 | 09/01/88 |
| | | | | | | | W196283 | | 5.10 | 1.50 | | 9.0 | 2219 |
| UNDERGROUND | 2.20 | 36.70 | 54.40 | WISE | 8.90 | 76.70 | 5.30 | 0.90 | 365734 | 825121 | B | 13830 | 09/01/88 |
| | | | | | | | W205195 | | 6.50 | 1.70 | | 5.5 | 2804 |
| UNDERGROUND MINE | 1.20 | 31.70 | 54.30 | RUSSELL | 14.00 | 73.60 | 4.60 | 0.60 | 365741 | 821442 | B | 13000 | 09/01/88 |
| | | | | | | | W192708 | | 5.80 | 1.40 | | 5.0 | 2345 |
| SURFACE MINE | 2.90 | 36.10 | 61.00 | WISE | 2.90 | 84.20 | 5.30 | 0.90 | 365759 | 823555 | B | 14920 | 09/01/88 |
| | | | | | | | W199467 | | 5.20 | 1.50 | | 8.0 | 2237 |
| SURFACE MINE | 1.90 | 37.20 | 57.20 | WISE | 5.60 | 78.90 | 5.30 | 3.20 | 365806 | 824042 | B | 14390 | 09/01/88 |
| | | | | | | | W191068 | | 5.60 | 1.40 | | 9.0 | 2102 |
| SURFACE | 3.90 | 35.80 | 57.60 | WISE | 6.60 | 80.30 | 5.20 | 0.90 | 365815 | 822424 | B | 14290 | 09/01/88 |
| | | | | | | | W202129 | | 5.50 | 1.50 | | 8.5 | 2183 |
| SURFACE MINE | 3.60 | 32.60 | 54.40 | WISE | 13.00 | 74.50 | 4.90 | 0.90 | 365818 | 824139 | B | 13320 | 09/01/88 |
| | | | | | | | W196284 | | 5.40 | 1.30 | | 7.5 | 2804 |
| SURFACE MINE | 2.90 | 34.20 | 57.40 | WISE | 8.40 | 78.30 | 5.10 | 0.60 | 365820 | 823219 | B | 14000 | 09/01/88 |
| | | | | | | | W196288 | | 6.10 | 1.50 | | 9.0 | 2804 |
| SURFACE MINE | 1.30 | 35.70 | 57.90 | WISE | 6.40 | 80.30 | 5.60 | 0.60 | 365821 | 823942 | B | 14420 | 09/01/88 |
| | | | | | | | W191065 | | 5.40 | 1.70 | | 9.0 | 2534 |
| SURFACE MINE | 1.50 | 34.00 | 54.10 | WISE | 11.90 | 75.50 | 5.00 | 1.20 | 365822 | 824017 | B | 13480 | 09/01/88 |
| | | | | | | | W193663 | | 5.00 | 1.40 | | 5.5 | 2669 |
| SURFACE MINE | 2.40 | 30.90 | 56.40 | WISE | 12.70 | 73.20 | 5.00 | 2.40 | 365825 | 823234 | B | 13150 | 09/01/88 |
| | | | | | | | W192599 | | 5.30 | 1.40 | | 8.5 | 2498 |
| SURFACE MINE | 2.00 | 33.30 | 59.90 | WISE | 6.80 | 79.20 | 5.20 | 1.50 | 365827 | 823227 | B | 14180 | 09/01/88 |
| | | | | | | | W191064 | | 5.80 | 1.50 | | 9.0 | 2030 |

Coal Field Information Printout for: VA - Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------|----------|-----------|----------|---------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | Ash | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| SURFACE MINE | | | | WISE | | | | | | | | |
| 2.30 | 33.20 | 59.80 | 7.00 | WISE | 77.20 | 5.30 | 0.90 | 365827 | 823234 | B | 14300 | 09/01/88 |
| | | | | | | | | 7.90 | 1.70 | | 9.0 | 2696 |
| SURFACE MINE | | | | WISE | | | | | | | | |
| 2.60 | 32.80 | 63.70 | 3.50 | WISE | 83.40 | 5.30 | 0.70 | 365828 | 823155 | B | 14870 | 09/01/88 |
| | | | | | | | | 5.60 | 1.50 | | 8.0 | 2642 |
| SURFACE MINE | | | | WISE | | | | | | | | |
| 4.30 | 33.80 | 61.10 | 5.10 | WISE | 81.30 | 5.40 | 1.10 | 365832 | 823926 | B | 14510 | 09/01/88 |
| | | | | | | | | 5.40 | 1.70 | | 9.0 | 2606 |
| SURFACE MINE | | | | WISE | | | | | | | | |
| 2.60 | 35.70 | 57.80 | 6.50 | WISE | 78.20 | 5.10 | 3.20 | 365837 | 823927 | B | 14140 | 09/01/88 |
| | | | | | | | | 5.60 | 1.40 | | 9.0 | 2147 |
| UNDERGROUND MINE | | | | WISE | | | | | | | | |
| 1.60 | 33.10 | 58.80 | 8.10 | WISE | 78.70 | 5.00 | 0.80 | 365838 | 824740 | B | 13940 | 09/01/88 |
| | | | | | | | | 6.00 | 1.40 | | 8.5 | 2804 |
| UNDERGROUND MINE | | | | WISE | | | | | | | | |
| 1.80 | 33.70 | 61.40 | 4.90 | WISE | 81.70 | 5.20 | 0.70 | 365841 | 824655 | B | 14420 | 09/01/88 |
| | | | | | | | | 6.00 | 1.50 | | 7.5 | 2642 |
| UNDERGROUND MINE | | | | RUSSELL | | | | | | | | |
| 1.60 | 28.60 | 55.00 | 16.40 | RUSSELL | 72.40 | 4.50 | 0.60 | 365845 | 821200 | B | 12710 | 09/01/88 |
| | | | | | | | | 4.80 | 1.30 | | 6.5 | 2552 |
| SURFACE MINE | | | | WISE | | | | | | | | |
| 3.80 | 34.10 | 62.10 | 3.80 | WISE | 83.00 | 5.20 | 0.70 | 365845 | 823258 | B | 14770 | 09/01/88 |
| | | | | | | | | 5.60 | 1.70 | | 8.5 | 2678 |
| SURFACE MINE | | | | WISE | | | | | | | | |
| 1.80 | 33.40 | 54.10 | 12.50 | WISE | 75.60 | 4.90 | 2.00 | 365849 | 823229 | B | 13600 | 09/01/88 |
| | | | | | | | | 3.50 | 1.50 | | 7.0 | 2426 |
| SURFACE | | | | WISE | | | | | | | | |
| 3.50 | 32.50 | 52.00 | 15.50 | WISE | 71.90 | 5.00 | 1.10 | 365851 | 822541 | B | 12840 | 09/01/88 |
| | | | | | | | | 4.90 | 1.60 | | 8.5 | 2516 |
| SURFACE MINE | | | | WISE | | | | | | | | |
| 2.10 | 35.20 | 54.10 | 10.70 | WISE | 76.70 | 5.10 | 0.70 | 365851 | 824254 | B | 13730 | 09/01/88 |
| | | | | | | | | 5.40 | 1.40 | | 8.0 | 2804 |
| SURFACE MINE | | | | WISE | | | | | | | | |
| 3.10 | 33.50 | 58.20 | 8.30 | WISE | 79.00 | 5.20 | 0.60 | 365854 | 823157 | B | 14070 | 09/01/88 |
| | | | | | | | | 5.30 | 1.60 | | 8.0 | 2750 |
| UNDERGROUND MINE | | | | WISE | | | | | | | | |
| 1.10 | 34.40 | 53.90 | 11.70 | WISE | 75.40 | 4.80 | 0.80 | 365856 | 825855 | B | 13440 | 09/01/88 |
| | | | | | | | | 5.90 | 1.40 | | 6.5 | 2804 |
| SURFACE MINE | | | | WISE | | | | | | | | |
| 3.00 | 32.50 | 61.70 | 5.80 | WISE | 81.30 | 5.10 | 1.10 | 365910 | 823115 | B | 14460 | 09/01/88 |
| | | | | | | | | 5.20 | 1.50 | | 7.5 | 2543 |
| UNDERGROUND | | | | WISE | | | | | | | | |
| 2.90 | 35.60 | 59.30 | 5.10 | WISE | 81.40 | 5.20 | 0.60 | 365910 | 825003 | B | 14390 | 09/01/88 |
| | | | | | | | | 6.10 | 1.60 | | 5.0 | 2804 |
| SURFACE MINE | | | | WISE | | | | | | | | |
| 3.30 | 35.30 | 59.10 | 5.60 | WISE | 81.70 | 5.20 | 0.70 | 365911 | 823849 | B | 14570 | 09/01/88 |
| | | | | | | | | 5.20 | 1.60 | | 7.0 | 2804 |

Coal Field Information Printout for: VA - Virginia

| Location | | County | | | Code Number | | Latitude | | Longitude | | Rank | Htg Val | Last Chg |
|------------------|-----------|----------|---------|--------|-------------|--------|----------|----------|-----------|------------|----------|-----------|----------|
| Moisture | Volatiles | Fxd Crbn | Ash | Carbon | Hydrogen | Sulfur | Oxygen | Nitrogen | Hardgrove | Free Swell | | Hemi Temp | |
| SURFACE MINE | | | WISE | | W192586 | | 365913 | 823249 | B | 12430 | 09/01/88 | | |
| 4.50 | 30.70 | 52.30 | 17.00 | 69.00 | 4.60 | 2.80 | 5.10 | 1.50 | | 9.0 | 2255 | | |
| UNDERGROUND MINE | | | RUSSELL | | W197303 | | 365914 | 821422 | B | 14580 | 09/01/88 | | |
| 1.60 | 32.00 | 61.80 | 6.20 | 82.90 | 5.00 | 0.50 | 4.00 | 1.40 | | 9.0 | 2300 | | |
| SURFACE MINE | | | WISE | | W191134 | | 365915 | 823250 | B | 14210 | 09/01/88 | | |
| 6.20 | 34.30 | 57.60 | 8.10 | 79.40 | 5.20 | 0.70 | 5.10 | 1.50 | | 8.0 | 2651 | | |
| SURFACE MINE | | | WISE | | W192601 | | 365916 | 823252 | B | 15080 | 09/01/88 | | |
| 3.90 | 33.50 | 64.30 | 2.20 | 84.50 | 5.60 | 0.50 | 5.50 | 1.70 | | 9.0 | 2534 | | |
| UNDERGROUND MINE | | | WISE | | W214255 | | 365917 | 824823 | B | 14450 | 09/01/88 | | |
| 1.80 | 37.40 | 58.40 | 4.20 | 81.40 | 5.30 | 0.70 | 6.70 | 1.70 | | 5.0 | 2678 | | |
| SURFACE MINE | | | WISE | | W199466 | | 365918 | 823104 | B | 15070 | 09/01/88 | | |
| 2.80 | 32.50 | 65.20 | 2.30 | 85.00 | 5.30 | 1.30 | 4.60 | 1.50 | | 8.0 | 2030 | | |
| UNDERGROUND MINE | | | WISE | | W214256 | | 365918 | 824708 | B | 14640 | 09/01/88 | | |
| 1.50 | 34.90 | 60.80 | 4.30 | 82.60 | 5.30 | 0.70 | 5.60 | 1.50 | | 7.5 | 2633 | | |
| SURFACE MINE | | | WISE | | W196287 | | 365925 | 823324 | B | 13560 | 09/01/88 | | |
| 1.70 | 34.40 | 54.20 | 11.40 | 74.10 | 4.90 | 5.30 | 2.70 | 1.60 | | 9.0 | 2201 | | |
| SURFACE MINE | | | WISE | | W194852 | | 365928 | 823323 | B | 14450 | 09/01/88 | | |
| 2.30 | 33.80 | 59.90 | 6.30 | 80.20 | 5.20 | 2.60 | 3.90 | 1.80 | | 9.0 | 2120 | | |
| SURFACE MINE | | | WISE | | W192588 | | 365929 | 823034 | B | 14750 | 09/01/88 | | |
| 2.60 | 32.30 | 63.80 | 3.90 | 82.60 | 5.20 | 1.20 | 5.50 | 1.60 | | 9.0 | 2111 | | |
| SURFACE MINE | | | WISE | | W191332 | | 365931 | 823032 | B | 14330 | 09/01/88 | | |
| 3.90 | 36.40 | 57.30 | 6.30 | 79.50 | 5.20 | 3.10 | 4.90 | 1.00 | | 9.0 | 2210 | | |
| SURFACE MINE | | | WISE | | W194412 | | 365932 | 823325 | B | 14620 | 09/01/88 | | |
| 5.50 | 32.80 | 61.40 | 5.80 | 81.60 | 5.20 | 0.60 | 5.10 | 1.70 | | 8.5 | 2660 | | |
| SURFACE MINE | | | RUSSELL | | W195445 | | 365933 | 820945 | B | 12650 | 09/01/88 | | |
| 2.30 | 30.60 | 51.80 | 17.60 | 70.80 | 4.70 | 1.00 | 4.60 | 1.30 | | 0.0 | 2804 | | |
| SURFACE MINE | | | WISE | | W191328 | | 365933 | 822839 | B | 14810 | 09/01/88 | | |
| 1.40 | 34.60 | 61.60 | 3.80 | 82.70 | 5.30 | 0.60 | 6.10 | 1.50 | | 8.5 | 2597 | | |
| SURFACE MINE | | | WISE | | W191337 | | 365935 | 823056 | B | 14610 | 09/01/88 | | |
| 3.50 | 35.60 | 60.70 | 3.70 | 82.00 | 5.40 | 1.10 | 6.60 | 1.20 | | 9.0 | 2147 | | |
| UNDERGROUND MINE | | | WISE | | W214253 | | 365936 | 824706 | B | 14660 | 09/01/88 | | |
| 1.50 | 35.20 | 61.20 | 3.60 | 82.90 | 5.30 | 0.50 | 6.20 | 1.50 | | 8.5 | 2543 | | |

Coal Field Information Printout for: VA - Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------|----------|-----------|----------|-----------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | Ash | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| SURFACE MINE | 2.40 | 28.60 | 51.60 | RUSSELL | 68.90 | 4.60 | 0.80 | 365941 | 821106 | B | 12260 | 09/01/88 |
| | | | | | | | | 4.50 | 1.40 | | 7.5 | 2507 |
| UNDERGROUND MINE | 1.50 | 34.20 | 61.90 | WISE | 82.70 | 5.10 | 0.80 | 365943 | 823942 | B | 14760 | 09/01/88 |
| | | | | | | | | 5.70 | 1.80 | | 8.5 | 2624 |
| UNDERGROUND | 3.50 | 34.70 | 58.30 | WISE | 79.10 | 5.00 | 0.60 | 365946 | 824930 | B | 13910 | 09/01/88 |
| | | | | | | | | 6.60 | 1.70 | | 4.5 | 2723 |
| SURFACE MINE | 4.20 | 32.20 | 61.10 | WISE | 81.00 | 5.00 | 0.90 | 365951 | 823333 | B | 14410 | 09/01/88 |
| | | | | | | | | 4.80 | 1.60 | | 8.5 | 2633 |
| SURFACE MINE | 2.90 | 33.20 | 55.10 | WISE | 74.40 | 4.80 | 2.90 | 365955 | 823516 | B | 13420 | 09/01/88 |
| | | | | | | | | 4.70 | 1.50 | | 7.5 | 2264 |
| SURFACE MINE | 2.90 | 30.80 | 59.90 | WISE | 78.00 | 5.20 | 0.80 | 365956 | 823516 | B | 13910 | 09/01/88 |
| | | | | | | | | 5.20 | 1.50 | | 8.0 | 2804 |
| SURFACE | 2.70 | 32.20 | 63.00 | WISE | 82.60 | 5.10 | 0.80 | 365957 | 822952 | B | 14680 | 09/01/88 |
| | | | | | | | | 5.10 | 1.60 | | 9.0 | 2759 |
| UNDERGROUND MINE | 1.80 | 29.70 | 57.90 | RUSSELL | 76.60 | 4.80 | 0.60 | 370001 | 821107 | B | 13510 | 09/01/88 |
| | | | | | | | | 4.30 | 1.30 | | 0.0 | 2381 |
| UNDERGROUND MINE | 1.90 | 34.10 | 56.10 | DICKENSON | 76.90 | 5.20 | 1.80 | 370005 | 821937 | B | 13860 | 09/01/88 |
| | | | | | | | | 4.90 | 1.40 | | 8.5 | 2093 |
| SURFACE MINE | 11.00 | 31.70 | 60.80 | WISE | 77.40 | 4.80 | 1.00 | 370007 | 823531 | B | 13490 | 09/01/88 |
| | | | | | | | | 7.70 | 1.60 | | 2.0 | 2399 |
| SURFACE MINE | 6.40 | 33.30 | 63.70 | WISE | 83.80 | 5.30 | 0.70 | 370009 | 823531 | B | 14930 | 09/01/88 |
| | | | | | | | | 5.60 | 1.60 | | 9.0 | 2912 |
| SURFACE MINE | 1.50 | 34.00 | 55.40 | WISE | 74.60 | 4.90 | 4.50 | 370012 | 823245 | B | 13490 | 09/01/88 |
| | | | | | | | | 4.20 | 1.20 | | 9.0 | 2201 |
| UNDERGROUND MINE | 2.80 | 32.00 | 57.70 | WISE | 77.00 | 4.90 | 1.00 | 370014 | 823400 | B | 13770 | 09/01/88 |
| | | | | | | | | 5.20 | 1.60 | | 8.5 | 2273 |
| SURFACE MINE | 2.40 | 26.00 | 49.50 | DICKENSON | 64.60 | 4.20 | 0.70 | 370016 | 822552 | B | 11420 | 09/01/88 |
| | | | | | | | | 4.60 | 1.40 | | 9.0 | 2489 |
| UNDERGROUND MINE | 3.00 | 35.90 | 56.80 | DICKENSON | 77.30 | 5.20 | 4.20 | 370018 | 822003 | B | 14180 | 09/01/88 |
| | | | | | | | | 4.60 | 1.40 | | 8.5 | 2048 |
| SURFACE | 2.20 | 35.30 | 57.70 | WISE | 79.30 | 5.20 | 0.70 | 370021 | 824719 | B | 13990 | 09/01/88 |
| | | | | | | | | 6.20 | 1.60 | | 5.0 | 2804 |

Coal Field Information Printout for: VA - Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank | Htg Val Free Swell | Last Chg Hemi Temp |
|------------------|----------|-----------|----------|-----------|-------|--------|----------|--------|--------------------|-----------------------|------|-----------------------|-----------------------|
| UNDERGROUND MINE | 1.60 | 30.50 | 54.00 | DICKENSON | 15.50 | 73.40 | W210398 | 0.80 | 370022 | 822017 | B | 13060 | 09/01/88 |
| | | | | | | | 4.70 | 0.80 | 4.20 | 1.40 | | 7.5 | 2381 |
| UNDERGROUND MINE | 2.00 | 32.40 | 58.40 | DICKENSON | 9.20 | 78.70 | W209963 | 0.70 | 370028 | 821848 | B | 13900 | 09/01/88 |
| | | | | | | | 5.30 | 0.70 | 4.70 | 1.40 | | 8.0 | 2354 |
| SURFACE MINE | 1.20 | 34.60 | 60.90 | WISE | 4.50 | 82.00 | W225108 | 0.80 | 370029 | 823948 | B | 14740 | 09/01/88 |
| | | | | | | | 5.10 | 0.80 | 5.80 | 1.80 | | 7.5 | 2804 |
| | 1.20 | 31.60 | 58.90 | RUSSELL | 9.50 | 79.00 | D161632 | 0.70 | 370045 | 821037 | B | 13950 | 09/01/88 |
| | | | | | | | 5.00 | 0.70 | 4.40 | 1.40 | | 0.0 | 0 |
| UNDERGROUND MINE | 1.30 | 45.10 | 47.90 | DICKENSON | 7.00 | 81.10 | W210391 | 0.80 | 370045 | 821844 | B | 14460 | 09/01/88 |
| | | | | | | | 5.10 | 0.80 | 4.40 | 1.60 | | 8.0 | 2219 |
| SURFACE MINE | 3.60 | 38.20 | 55.90 | WISE | 5.90 | 80.10 | W195441 | 0.80 | 370045 | 824250 | B | 14400 | 09/01/88 |
| | | | | | | | 5.50 | 0.80 | 6.00 | 1.70 | | 8.5 | 2804 |
| SURFACE MINE | 3.90 | 31.50 | 63.20 | WISE | 5.30 | 81.90 | W192703 | 0.90 | 370046 | 823328 | B | 14630 | 09/01/88 |
| | | | | | | | 5.30 | 0.90 | 4.80 | 1.80 | | 9.0 | 2804 |
| SURFACE MINE | 5.00 | 30.00 | 60.70 | WISE | 9.30 | 76.40 | W192613 | 3.50 | 370048 | 823321 | B | 13630 | 09/01/88 |
| | | | | | | | 4.80 | 3.50 | 4.40 | 1.60 | | 9.0 | 2084 |
| UNDERGROUND MINE | 2.00 | 32.30 | 61.30 | DICKENSON | 6.40 | 81.50 | W209959 | 0.60 | 370050 | 822556 | B | 14530 | 09/01/88 |
| | | | | | | | 5.00 | 0.60 | 5.00 | 1.50 | | 8.0 | 2579 |
| SURFACE MINE | 1.90 | 33.80 | 62.70 | WISE | 3.50 | 83.70 | W223356 | 0.80 | 370052 | 823908 | B | 14900 | 09/01/88 |
| | | | | | | | 5.20 | 0.80 | 5.10 | 1.70 | | 8.5 | 2768 |
| SURFACE MINE | 3.40 | 33.90 | 51.60 | WISE | 14.50 | 72.50 | W195443 | 1.20 | 370057 | 824248 | B | 12950 | 09/01/88 |
| | | | | | | | 5.00 | 1.20 | 5.40 | 1.40 | | 8.5 | 2804 |
| UNDERGROUND MINE | 2.60 | 23.20 | 46.40 | RUSSELL | 30.40 | 59.80 | W192707 | 0.50 | 370100 | 820952 | B | 10470 | 09/01/88 |
| | | | | | | | 3.80 | 0.50 | 4.30 | 1.20 | | 5.0 | 2777 |
| SURFACE MINE | 3.70 | 32.10 | 59.20 | DICKENSON | 8.70 | 77.90 | W209960 | 1.00 | 370104 | 822724 | B | 13990 | 09/01/88 |
| | | | | | | | 5.50 | 1.00 | 5.30 | 1.60 | | 8.5 | 2291 |
| SURFACE | 3.30 | 33.70 | 62.60 | DICKENSON | 3.70 | 84.60 | W204160 | 0.60 | 370108 | 821814 | B | 14960 | 09/01/88 |
| | | | | | | | 5.20 | 0.60 | 4.30 | 1.60 | | 8.0 | 2246 |
| SURFACE MINE | 3.20 | 34.10 | 62.60 | WISE | 3.30 | 83.70 | W229076 | 0.80 | 370111 | 823348 | B | 14930 | 09/01/88 |
| | | | | | | | 5.20 | 0.80 | 5.30 | 1.70 | | 8.5 | 2543 |
| SURFACE MINE | 5.90 | 32.70 | 63.50 | WISE | 3.80 | 84.20 | W229075 | 0.60 | 370116 | 823218 | B | 14910 | 09/01/88 |
| | | | | | | | 5.20 | 0.60 | 4.60 | 1.60 | | 8.0 | 2804 |

Coal Field Information Printout for: VA - Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrog | Code Number | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------|----------|-----------|----------|-----------|-----|--------|--------|-------------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| 2.00 | 31.10 | 56.10 | 12.80 | RUSSELL | | 74.00 | 4.60 | D161636 | 0.60 | 370120 | 821129 | B | 13100 | 09/01/88 |
| | | | | | | | | | | 6.70 | 1.30 | | 0.0 | 0 |
| SURFACE MINE | | | | DICKENSON | | 82.20 | 5.40 | W192612 | 1.10 | 370131 | 821527 | B | 14710 | 09/01/88 |
| 2.70 | 33.70 | 63.00 | 3.30 | | | | | | | 6.50 | 1.50 | | 8.5 | 2246 |
| UNDERGROUND MINE | | | | DICKENSON | | 71.70 | 4.90 | W210401 | 2.20 | 370133 | 821252 | B | 13030 | 09/01/88 |
| 1.50 | 33.60 | 51.30 | 15.10 | | | | | | | 4.80 | 1.30 | | 7.5 | 2489 |
| UNDERGROUND MINE | | | | DICKENSON | | 80.70 | 5.70 | W210402 | 0.80 | 370135 | 821239 | B | 14470 | 09/01/88 |
| 3.80 | 33.50 | 59.70 | 6.80 | | | | | | | 4.40 | 1.60 | | 6.0 | 2507 |
| UNDERGROUND MINE | | | | BUCHANAN | | 83.90 | 5.00 | W217594 | 0.80 | 370137 | 820834 | B | 14800 | 09/01/88 |
| 1.80 | 30.80 | 65.00 | 4.20 | | | | | | | 4.70 | 1.40 | | 8.5 | 2471 |
| SURFACE MINE | | | | RUSSELL | | 78.20 | 4.80 | W192607 | 0.70 | 370140 | 820819 | B | 13770 | 09/01/88 |
| 4.60 | 28.60 | 62.50 | 8.90 | | | | | | | 6.10 | 1.30 | | 8.0 | 2516 |
| UNDERGROUND MINE | | | | DICKENSON | | 66.90 | 4.30 | W210399 | 0.70 | 370140 | 822031 | B | 11620 | 09/01/88 |
| 3.30 | 44.40 | 33.20 | 22.40 | | | | | | | 4.50 | 1.20 | | 7.0 | 2696 |
| UNDERGROUND MINE | | | | BUCHANAN | | 78.40 | 5.00 | W217597 | 0.80 | 370141 | 820803 | B | 13920 | 09/01/88 |
| 1.80 | 32.30 | 58.70 | 9.00 | | | | | | | 5.30 | 1.50 | | 7.5 | 2417 |
| SURFACE MINE | | | | DICKENSON | | 83.40 | 5.40 | W195444 | 1.00 | 370142 | 822816 | B | 14900 | 09/01/88 |
| 4.30 | 31.80 | 63.60 | 4.60 | | | | | | | 3.80 | 1.80 | | 9.0 | 2255 |
| UNDERGROUND MINE | | | | DICKENSON | | 80.80 | 5.30 | W210400 | 0.80 | 370143 | 821611 | B | 14420 | 09/01/88 |
| 2.40 | 31.20 | 61.50 | 7.30 | | | | | | | 4.30 | 1.50 | | 8.0 | 2210 |
| 13.00 | 29.00 | 58.80 | 12.20 | RUSSELL | | 67.80 | 3.50 | D161627 | 0.60 | 370145 | 820828 | B | 11080 | 09/01/88 |
| | | | | | | | | | | 14.80 | 1.10 | | 0.0 | 0 |
| 1.40 | 33.10 | 57.30 | 9.60 | RUSSELL | | 77.50 | 5.00 | D161634 | 0.50 | 370145 | 821054 | B | 13720 | 09/01/88 |
| | | | | | | | | | | 6.00 | 1.40 | | 0.0 | 0 |
| SURFACE MINE | | | | WISE | | 78.40 | 4.80 | W192592 | 1.00 | 370147 | 823536 | B | 14020 | 09/01/88 |
| 4.40 | 28.80 | 62.20 | 9.00 | | | | | | | 5.00 | 1.80 | | 8.5 | 2786 |
| 1.10 | 31.20 | 62.80 | 6.00 | RUSSELL | | 82.40 | 5.00 | D161626 | 0.80 | 370149 | 820840 | B | 14550 | 09/01/88 |
| | | | | | | | | | | 4.50 | 1.30 | | 0.0 | 0 |
| UNDERGROUND MINE | | | | DICKENSON | | 78.50 | 5.10 | W210393 | 1.00 | 370149 | 822008 | B | 14100 | 09/01/88 |
| 2.00 | 30.20 | 60.50 | 9.30 | | | | | | | 4.60 | 1.50 | | 8.5 | 2471 |
| SURFACE MINE | | | | WISE | | 81.30 | 4.80 | W197300 | 0.80 | 370149 | 823425 | B | 14490 | 09/01/88 |
| 2.30 | 31.10 | 62.60 | 6.30 | | | | | | | 5.30 | 1.50 | | 9.0 | 2912 |

Coal Field Information Printout for: VA - Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------------|----------|-----------|----------|-----------|-----|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| SURFACE | | | | WISE | | | | | | | | | |
| 2.20 | 33.50 | 53.50 | 13.00 | | | 73.20 | 4.90 | 4.60 | 370149 | 823740 | B | 13330 | 09/01/88 |
| | | | | | | | | | 2.90 | 1.40 | | 8.0 | 2147 |
| SURFACE MINE | | | | WISE | | | | | | | | | |
| 2.70 | 32.90 | 55.20 | 11.90 | | | 74.60 | 4.80 | 2.50 | 370151 | 823534 | B | 13390 | 09/01/88 |
| | | | | | | | | | 5.30 | 0.90 | | 8.5 | 2498 |
| UNDERGROUND MINE | | | | WISE | | | | | | | | | |
| 2.10 | 35.00 | 52.90 | 12.10 | | | 74.30 | 5.00 | 1.30 | 370154 | 824358 | B | 13240 | 09/01/88 |
| | | | | | | | | | 5.60 | 1.70 | | 7.0 | 2696 |
| SURFACE MINE | | | | WISE | | | | | | | | | |
| 3.90 | 35.70 | 53.40 | 10.90 | | | 74.80 | 5.00 | 3.40 | 370155 | 823519 | B | 13510 | 09/01/88 |
| | | | | | | | | | 4.70 | 1.20 | | 8.5 | 2273 |
| SURFACE MINE | | | | WISE | | | | | | | | | |
| 4.10 | 31.50 | 60.60 | 7.90 | | | 79.40 | 5.30 | 0.90 | 370156 | 823519 | B | 14170 | 09/01/88 |
| | | | | | | | | | 4.80 | 1.70 | | 8.5 | 2588 |
| SURFACE MINE | | | | WISE | | | | | | | | | |
| 3.60 | 32.00 | 50.40 | 17.60 | | | 69.40 | 4.60 | 0.80 | 370202 | 824347 | B | 12300 | 09/01/88 |
| | | | | | | | | | 6.10 | 1.50 | | 5.0 | 2804 |
| SURFACE MINE | | | | DICKENSON | | | | | | | | | |
| 2.60 | 28.70 | 63.50 | 7.80 | | | 80.40 | 5.00 | 1.20 | 370215 | 822853 | B | 14360 | 09/01/88 |
| | | | | | | | | | 4.00 | 1.60 | | 9.0 | 2660 |
| UNDERGROUND MINE | | | | DICKENSON | | | | | | | | | |
| 2.20 | 29.00 | 59.50 | 11.50 | | | 75.90 | 4.90 | 1.10 | 370218 | 821723 | B | 13580 | 09/01/88 |
| | | | | | | | | | 5.20 | 1.40 | | 7.5 | 2480 |
| KISER RIDGE STRIP MINE | | | | DICKENSON | | | | | | | | | |
| 1.80 | 34.00 | 63.10 | 2.90 | | | 83.20 | 5.30 | 1.10 | 370220 | 821455 | B | 14770 | 09/01/88 |
| | | | | | | | | | 5.80 | 1.70 | | 0.0 | 0 |
| KISER RIDGE STRIP MINE | | | | DICKENSON | | | | | | | | | |
| 1.90 | 32.20 | 58.60 | 9.20 | | | 78.80 | 4.90 | 0.80 | 370220 | 821457 | B | 13930 | 09/01/88 |
| | | | | | | | | | 4.70 | 1.60 | | 0.0 | 0 |
| UNDERGROUND MINE | | | | DICKENSON | | | | | | | | | |
| 2.50 | 28.90 | 57.90 | 13.20 | | | 74.70 | 4.70 | 1.10 | 370220 | 821834 | B | 13330 | 09/01/88 |
| | | | | | | | | | 4.90 | 1.40 | | 7.0 | 2678 |
| SURFACE MINE | | | | DICKENSON | | | | | | | | | |
| 2.10 | 34.00 | 62.50 | 3.50 | | | 83.10 | 5.30 | 0.80 | 370221 | 821431 | B | 14730 | 09/01/88 |
| | | | | | | | | | 5.70 | 1.60 | | 8.5 | 2426 |
| SURFACE MINE | | | | WISE | | | | | | | | | |
| 5.50 | 35.70 | 57.70 | 6.60 | | | 79.40 | 5.20 | 1.30 | 370224 | 824223 | B | 14010 | 09/01/88 |
| | | | | | | | | | 6.00 | 1.50 | | 4.5 | 2417 |
| | | | | DICKENSON | | | | | | | | | |
| 1.40 | 32.30 | 59.30 | 8.40 | | | 80.00 | 5.00 | 0.50 | 370228 | 821122 | B | 14010 | 09/01/88 |
| | | | | | | | | | 4.70 | 1.40 | | 0.0 | 0 |
| SURFACE MINE | | | | WISE | | | | | | | | | |
| 1.40 | 38.40 | 59.10 | 2.50 | | | 84.60 | 5.40 | 0.80 | 370233 | 824114 | B | 15120 | 09/01/88 |
| | | | | | | | | | 5.20 | 1.50 | | 5.0 | 2534 |
| UNDERGROUND MINE | | | | WISE | | | | | | | | | |
| 3.80 | 31.60 | 60.40 | 8.00 | | | 78.90 | 4.90 | 2.30 | 370239 | 823340 | B | 14180 | 09/01/88 |
| | | | | | | | | | 4.20 | 1.70 | | 8.0 | 2543 |

Coal Field Information Printout for: VA - Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------|----------|-----------|----------|-----------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| SURFACE | 2.80 | 29.60 | 59.80 | DICKENSON | 10.60 | 78.40 | W203390 | 0.90 | 370246 | 822858 | B | 13920 | 09/01/88 |
| | | | | | | | 4.90 | | 3.90 | 1.30 | | 8.0 | 2912 |
| SURFACE MINE | | | | WISE | | | W226972 | | 370248 | 824105 | B | 14360 | 09/01/88 |
| | 5.60 | 35.00 | 60.60 | | 4.40 | 80.40 | 5.20 | 1.90 | 6.80 | 1.30 | | 8.0 | 2084 |
| SURFACE MINE | | | | WISE | | | W226973 | | 370254 | 824113 | B | 14910 | 09/01/88 |
| | 1.10 | 37.70 | 58.90 | | 3.40 | 83.40 | 5.30 | 0.80 | 5.60 | 1.50 | | 4.5 | 2741 |
| UNDERGROUND MINE | | | | DICKENSON | | | W217596 | | 370257 | 821156 | B | 14790 | 09/01/88 |
| | 1.60 | 32.40 | 62.80 | | 4.80 | 83.20 | 5.20 | 0.80 | 4.30 | 1.70 | | 7.0 | 2417 |
| SURFACE MINE | | | | DICKENSON | | | W211173 | | 370259 | 821436 | B | 12840 | 09/01/88 |
| | 2.20 | 29.60 | 54.40 | | 16.00 | 72.50 | 4.70 | 0.60 | 4.80 | 1.40 | | 7.5 | 2804 |
| SURFACE | | | | DICKENSON | | | W204159 | | 370303 | 820922 | B | 13270 | 09/01/88 |
| | 4.00 | 26.70 | 59.30 | | 14.00 | 75.10 | 4.50 | 0.60 | 4.30 | 1.50 | | 8.0 | 2804 |
| | | | | WISE | | | W191331 | | 370306 | 823800 | B | 14420 | 09/01/88 |
| | 4.90 | 34.00 | 60.40 | | 5.60 | 80.40 | 5.30 | 1.70 | 5.80 | 1.20 | | 9.0 | 2399 |
| SURFACE MINE | | | | WISE | | | W191333 | | 370307 | 823759 | B | 14930 | 09/01/88 |
| | 4.30 | 37.40 | 59.60 | | 3.00 | 83.40 | 5.50 | 0.90 | 6.10 | 1.10 | | 9.0 | 2588 |
| UNDERGROUND MINE | | | | WISE | | | W212491 | | 370308 | 823711 | B | 12710 | 09/01/88 |
| | 2.20 | 29.20 | 54.70 | | 16.10 | 71.70 | 4.40 | 0.70 | 5.90 | 1.20 | | 8.0 | 2804 |
| DEEP MINE | | | | RUSSELL | | | W187053 | | 370311 | 815906 | B | 12420 | 09/01/88 |
| | 3.20 | 33.80 | 49.30 | | 16.90 | 69.60 | 4.30 | 0.70 | 7.40 | 1.10 | | 2.5 | 2750 |
| SURFACE MINE | | | | WISE | | | W212488 | | 370313 | 823855 | B | 13860 | 09/01/88 |
| | 1.70 | 34.30 | 56.40 | | 9.30 | 77.80 | 5.00 | 1.10 | 5.40 | 1.40 | | 8.0 | 2804 |
| SURFACE MINE | | | | DICKENSON | | | W196290 | | 370318 | 822153 | B | 12960 | 09/01/88 |
| | 1.80 | 26.30 | 56.80 | | 16.90 | 73.00 | 4.50 | 0.60 | 3.60 | 1.40 | | 9.0 | 2615 |
| SURFACE MINE | | | | WISE | | | W231834 | | 370319 | 823246 | B | 14620 | 09/01/88 |
| | 3.40 | 32.70 | 61.70 | | 5.60 | 80.90 | 5.10 | 1.60 | 5.40 | 1.40 | | 8.5 | 2417 |
| SURFACE | | | | WISE | | | W203389 | | 370327 | 823829 | B | 13620 | 09/01/88 |
| | 3.10 | 33.60 | 55.40 | | 11.00 | 75.80 | 5.10 | 2.10 | 5.60 | 0.40 | | 8.5 | 2552 |
| UNDERGROUND MINE | | | | DICKENSON | | | W193665 | | 370328 | 820827 | B | 12940 | 09/01/88 |
| | 3.30 | 26.50 | 57.60 | | 15.90 | 73.30 | 4.40 | 0.80 | 4.40 | 1.20 | | 8.5 | 2624 |
| UNDERGROUND MINE | | | | WISE | | | W212492 | | 370332 | 823303 | B | 14740 | 09/01/88 |
| | 2.40 | 31.00 | 64.60 | | 4.40 | 82.80 | 5.00 | 0.70 | 5.40 | 1.70 | | 8.5 | 2804 |

Coal Field Information Printout for: VA - Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------------------|----------|-----------|----------|-----------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| SURFACE MINE | 4.10 | 30.40 | 62.40 | DICKENSON | 7.20 | 81.80 | 4.90 | 0.70 | 370336 | 822724 | B | 14420 | 09/01/88 |
| | | | | | | | | | 3.80 | 1.60 | | 6.5 | 2912 |
| UNDERGROUND MINE | 2.00 | 23.40 | 51.50 | DICKENSON | 25.10 | 64.90 | 4.00 | 0.50 | 370337 | 821317 | B | 11490 | 09/01/88 |
| | | | | | | | | | 4.30 | 1.20 | | 8.0 | 2669 |
| UNDERGROUND MINE | 1.90 | 34.20 | 59.40 | WISE | 6.40 | 80.50 | 5.20 | 1.10 | 370345 | 824028 | B | 14300 | 09/01/88 |
| | | | | | | | | | 5.40 | 1.40 | | 8.0 | 2624 |
| SURFACE MINE | 1.70 | 38.30 | 55.70 | WISE | 6.00 | 79.80 | 5.30 | 2.50 | 370401 | 824210 | B | 14390 | 09/01/88 |
| | | | | | | | | | 4.90 | 1.50 | | 6.5 | 2030 |
| SURFACE MINE | 17.70 | 33.50 | 60.60 | WISE | 5.90 | 75.00 | 4.20 | 0.70 | 370404 | 823728 | B | 12570 | 09/01/88 |
| | | | | | | | | | 12.50 | 1.70 | | 0.0 | 2318 |
| SURFACE MINE | 1.80 | 32.50 | 58.50 | WISE | 9.00 | 78.30 | 5.10 | 0.90 | 370404 | 823730 | B | 13980 | 09/01/88 |
| | | | | | | | | | 5.00 | 1.70 | | 7.5 | 2804 |
| SURFACE MINE | 3.30 | 29.00 | 55.40 | RUSSELL | 15.60 | 72.80 | 4.50 | 1.70 | 370411 | 815845 | B | 12800 | 09/01/88 |
| | | | | | | | | | 4.40 | 1.00 | | 5.5 | 2642 |
| | 2.20 | 37.20 | 57.70 | RUSSELL | 5.10 | 82.00 | 5.10 | 0.80 | 370421 | 815655 | B | 14580 | 09/01/88 |
| | | | | | | | | | 5.50 | 1.50 | | 5.5 | 2093 |
| SURFACE MINE | 2.30 | 32.50 | 65.00 | WISE | 2.50 | 85.40 | 5.30 | 0.60 | 370421 | 823206 | B | 15230 | 09/01/88 |
| | | | | | | | | | 4.60 | 1.60 | | 7.5 | 2804 |
| UNDERGROUND MINE | 1.80 | 23.80 | 57.60 | DICKENSON | 18.60 | 71.30 | 4.30 | 0.60 | 370424 | 820945 | B | 12440 | 09/01/88 |
| | | | | | | | | | 4.00 | 1.20 | | 9.0 | 2678 |
| UNDERGROUND MINE | 2.20 | 30.90 | 63.20 | WISE | 5.90 | 81.70 | 4.40 | 0.80 | 370426 | 823145 | B | 14450 | 09/01/88 |
| | | | | | | | | | 5.60 | 1.60 | | 8.5 | 2804 |
| UNDERGROUND MINE | 2.60 | 25.60 | 64.70 | DICKENSON | 9.70 | 80.60 | 4.50 | 0.70 | 370429 | 821001 | B | 13950 | 09/01/88 |
| | | | | | | | | | 3.00 | 1.50 | | 9.0 | 2354 |
| UNDERGROUND MINE | 2.00 | 31.70 | 62.60 | WISE | 5.70 | 81.00 | 4.80 | 0.90 | 370429 | 823146 | B | 14500 | 09/01/88 |
| | | | | | | | | | 6.00 | 1.60 | | 9.0 | 2732 |
| SURFACE MINE | 6.00 | 33.80 | 64.90 | WISE | 1.30 | 86.40 | 5.40 | 0.90 | 370445 | 823118 | B | 15340 | 09/01/88 |
| | | | | | | | | | 4.40 | 1.60 | | 9.0 | 2417 |
| DEEP MINE, H COAL CO | 11.50 | 37.90 | 57.60 | RUSSELL | 4.50 | 80.60 | 5.10 | 0.50 | 370447 | 815550 | B | 14160 | 09/01/88 |
| | | | | | | | | | 7.90 | 1.40 | | 0.5 | 2138 |
| UNDERGROUND MINE | 1.50 | 20.10 | 54.40 | DICKENSON | 25.50 | 65.10 | 3.90 | 0.60 | 370452 | 821331 | B | 11370 | 09/01/88 |
| | | | | | | | | | 3.80 | 1.10 | | 7.5 | 2804 |

Coal Field Information Printout for: VA - Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|---------------------------|----------|-----------|----------|-----------|-----|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| UNDERGROUND MINE | | | | BUCHANAN | | | | | | | | | |
| 2.30 | 34.10 | 61.80 | 4.10 | | | 82.00 | 5.10 | 1.00 | 370457 | 820204 | B | 14810 | 09/01/88 |
| | | | | | | | | | 6.10 | 1.70 | | 8.0 | 2237 |
| SURFACE MINE | | | | WISE | | | | | | | | | |
| 2.60 | 32.20 | 54.90 | 12.90 | | | 74.10 | 4.80 | 2.50 | 370503 | 823519 | B | 13230 | 09/01/88 |
| | | | | | | | | | 3.90 | 1.80 | | 8.0 | 2372 |
| SURFACE MINE | | | | DICKENSON | | | | | | | | | |
| 3.90 | 31.10 | 64.10 | 4.80 | | | 83.50 | 5.30 | 0.90 | 370506 | 822536 | B | 14780 | 09/01/88 |
| | | | | | | | | | 3.80 | 1.70 | | 9.0 | 2597 |
| SURFACE MINE | | | | DICKENSON | | | | | | | | | |
| 2.50 | 19.20 | 49.10 | 31.70 | | | 59.20 | 3.60 | 0.80 | 370508 | 821308 | B | 10330 | 09/01/88 |
| | | | | | | | | | 3.70 | 1.00 | | 7.5 | 2804 |
| | | | | RUSSELL | | | | | | | | | |
| 2.80 | 35.00 | 56.50 | 8.50 | | | 79.00 | 5.00 | 0.60 | 370509 | 815419 | B | 14010 | 09/01/88 |
| | | | | | | | | | 5.40 | 1.50 | | 7.0 | 2462 |
| SURFACE MINE | | | | WISE | | | | | | | | | |
| 1.80 | 30.80 | 54.50 | 14.70 | | | 71.70 | 4.70 | 3.40 | 370510 | 823519 | B | 12940 | 09/01/88 |
| | | | | | | | | | 3.80 | 1.70 | | 6.5 | 2219 |
| | | | | RUSSELL | | | | | | | | | |
| 1.60 | 34.00 | 59.30 | 6.70 | | | 80.70 | 5.10 | 0.90 | 370519 | 815755 | B | 14310 | 09/01/88 |
| | | | | | | | | | 5.20 | 1.40 | | 8.0 | 2462 |
| SURFACE MINE | | | | WISE | | | | | | | | | |
| 4.10 | 32.70 | 63.70 | 3.60 | | | 84.10 | 5.20 | 0.70 | 370519 | 823524 | B | 15020 | 09/01/88 |
| | | | | | | | | | 4.70 | 1.70 | | 8.5 | 2777 |
| | | | | RUSSELL | | | | | | | | | |
| 2.50 | 35.40 | 56.30 | 8.30 | | | 79.10 | 4.90 | 0.50 | 370524 | 815449 | B | 13910 | 09/01/88 |
| | | | | | | | | | 5.80 | 1.40 | | 6.5 | 2408 |
| DEEP MINE, MCCALL COAL CO | | | | RUSSELL | | | | | | | | | |
| 1.50 | 36.90 | 55.80 | 7.30 | | | 80.10 | 5.10 | 0.60 | 370526 | 815415 | B | 14120 | 09/01/88 |
| | | | | | | | | | 5.40 | 1.50 | | 7.5 | 2516 |
| | | | | RUSSELL | | | | | | | | | |
| 3.30 | 35.30 | 57.90 | 6.80 | | | 79.70 | 5.10 | 0.60 | 370526 | 815417 | B | 14120 | 09/01/88 |
| | | | | | | | | | 6.10 | 1.70 | | 6.5 | 2462 |
| SURFACE MINE | | | | WISE | | | | | | | | | |
| 2.60 | 34.70 | 58.70 | 6.60 | | | 78.80 | 5.20 | 2.80 | 370527 | 823711 | B | 14220 | 09/01/88 |
| | | | | | | | | | 5.10 | 1.50 | | 9.0 | 2039 |
| SURFACE MINE | | | | WISE | | | | | | | | | |
| 3.10 | 35.80 | 57.60 | 6.60 | | | 79.30 | 5.20 | 2.50 | 370528 | 823844 | B | 14370 | 09/01/88 |
| | | | | | | | | | 5.00 | 1.40 | | 9.0 | 2264 |
| | | | | RUSSELL | | | | | | | | | |
| 1.30 | 35.70 | 56.60 | 7.70 | | | 78.90 | 5.10 | 0.60 | 370535 | 815439 | B | 14180 | 09/01/88 |
| | | | | | | | | | 6.10 | 1.60 | | 0.0 | 0 |
| SURFACE MINE | | | | WISE | | | | | | | | | |
| 3.40 | 33.10 | 64.20 | 2.70 | | | 83.70 | 5.20 | 0.70 | 370543 | 823514 | B | 15080 | 09/01/88 |
| | | | | | | | | | 6.10 | 1.60 | | 8.5 | 2732 |
| SURFACE MINE | | | | DICKENSON | | | | | | | | | |
| 3.00 | 32.60 | 65.00 | 2.40 | | | 84.40 | 5.30 | 1.00 | 370554 | 823013 | B | 15040 | 09/01/88 |
| | | | | | | | | | 5.30 | 1.60 | | 9.0 | 2579 |

Coal Field Information Printout for: VA - Virginia

| Location | | County | | Code Number | | Latitude | Longitude | Rank | Htg Val | Last Chg | |
|------------------------------|-----------|----------|-------|-------------|----------|----------|-----------|----------|-----------|------------|-----------|
| Moisture | Volatiles | Fxd Crbn | Ash | Carbon | Hydrogen | Sulfur | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| 1.60 | 33.20 | 62.70 | 4.10 | 83.20 | D168910 | 0.80 | 370559 | 815820 | B | 14810 | 09/01/88 |
| ----- | | | | | | | | | | | |
| DEEP MINE, HESS CREEK MIN CO | | | | | | | | | | | |
| 2.40 | 28.30 | 49.80 | 21.90 | 66.40 | W187055 | 2.30 | 370620 | 815748 | B | 11720 | 09/01/88 |
| ----- | | | | | | | | | | | |
| SURFACE MINE | | | | | | | | | | | |
| 2.30 | 34.20 | 61.00 | 4.80 | 80.90 | W192611 | 2.90 | 370620 | 823050 | B | 14610 | 09/01/88 |
| ----- | | | | | | | | | | | |
| SURFACE MINE | | | | | | | | | | | |
| 1.60 | 32.90 | 60.20 | 6.90 | 80.30 | D170136 | 1.70 | 370632 | 815842 | B | 14310 | 09/01/88 |
| ----- | | | | | | | | | | | |
| SURFACE MINE | | | | | | | | | | | |
| 2.70 | 35.00 | 57.40 | 7.60 | 78.90 | W229073 | 0.90 | 370648 | 823727 | B | 14100 | 09/01/88 |
| ----- | | | | | | | | | | | |
| SURFACE MINE | | | | | | | | | | | |
| 2.50 | 32.70 | 60.20 | 7.10 | 81.20 | W193945 | 0.70 | 370702 | 815912 | B | 14460 | 09/01/88 |
| ----- | | | | | | | | | | | |
| UNDERGROUND MINE | | | | | | | | | | | |
| 2.50 | 19.60 | 50.10 | 30.30 | 59.80 | W211172 | 1.50 | 370719 | 821346 | B | 10670 | 09/01/88 |
| ----- | | | | | | | | | | | |
| SURFACE MINE | | | | | | | | | | | |
| 4.00 | 33.00 | 62.10 | 4.90 | 80.60 | W212487 | 0.90 | 370726 | 822757 | B | 14150 | 09/01/88 |
| ----- | | | | | | | | | | | |
| UNDERGROUND MINE | | | | | | | | | | | |
| 1.40 | 21.10 | 56.00 | 22.90 | 65.40 | W211168 | 0.80 | 370748 | 821449 | B | 11860 | 09/01/88 |
| ----- | | | | | | | | | | | |
| SURFACE | | | | | | | | | | | |
| 3.90 | 35.10 | 60.00 | 4.90 | 82.20 | W203392 | 0.80 | 370749 | 822804 | B | 14710 | 09/01/88 |
| ----- | | | | | | | | | | | |
| SURFACE | | | | | | | | | | | |
| 3.00 | 28.90 | 62.00 | 9.10 | 79.30 | D170145 | 0.90 | 370800 | 814444 | B | 14080 | 09/01/88 |
| ----- | | | | | | | | | | | |
| SURFACE | | | | | | | | | | | |
| 2.60 | 30.00 | 64.60 | 5.40 | 82.80 | D170144 | 1.40 | 370812 | 814447 | B | 14660 | 09/01/88 |
| ----- | | | | | | | | | | | |
| SURFACE | | | | | | | | | | | |
| 2.70 | 24.50 | 55.80 | 19.70 | 68.20 | W191031 | 0.70 | 370814 | 814324 | B | 11980 | 09/01/88 |
| ----- | | | | | | | | | | | |
| UNDERGROUND MINE | | | | | | | | | | | |
| 1.70 | 28.90 | 66.40 | 4.70 | 83.90 | W217592 | 0.70 | 370823 | 815951 | B | 14790 | 09/01/88 |
| ----- | | | | | | | | | | | |
| SURFACE MINE | | | | | | | | | | | |
| 2.10 | 31.60 | 63.10 | 5.30 | 81.70 | W212486 | 0.70 | 370836 | 822953 | B | 14380 | 09/01/88 |
| ----- | | | | | | | | | | | |
| SURFACE | | | | | | | | | | | |
| 2.80 | 28.20 | 68.30 | 3.50 | 84.20 | D170143 | 2.00 | 370838 | 814230 | B | 14880 | 09/01/88 |

Coal Field Information Printout for: VA - Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Code Number | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------|----------|-----------|----------|-----------|-------|--------|----------|--------|-------------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| UNDERGROUND MINE | 0.90 | 23.00 | 56.10 | DICKENSON | 20.90 | 69.10 | 4.20 | 0.60 | W215414 | 370842 | 821951 | B | 12070 | 09/01/88 |
| | | | | | | | | | | 4.00 | 1.20 | | 6.0 | 2804 |
| SURFACE MINE | 2.50 | 37.20 | 57.60 | WISE | 5.20 | 79.60 | 5.20 | 2.00 | W212489 | 370842 | 823336 | B | 14360 | 09/01/88 |
| | | | | | | | | | | 6.20 | 1.80 | | 5.5 | 2111 |
| | 3.70 | 35.60 | 53.70 | WISE | 10.70 | 75.10 | 5.10 | 1.40 | W219265 | 370845 | 823740 | B | 13470 | 09/01/88 |
| | | | | | | | | | | 6.10 | 1.60 | | 6.5 | 2642 |
| | 2.00 | 27.10 | 69.60 | TAZEWELL | 3.30 | 85.30 | 5.00 | 0.90 | D170162 | 370858 | 814726 | B | 15010 | 09/01/88 |
| | | | | | | | | | | 3.90 | 1.60 | | 9.0 | 2138 |
| SURFACE MINE | 8.90 | 37.40 | 54.00 | DICKENSON | 8.60 | 76.70 | 5.40 | 2.90 | W209961 | 370904 | 823238 | B | 13930 | 09/01/88 |
| | | | | | | | | | | 4.80 | 1.60 | | 8.0 | 2120 |
| DRILLCORE | 2.90 | 35.30 | 59.90 | WISE | 4.80 | 81.80 | 5.10 | 0.60 | W219405 | 370904 | 823625 | B | 14550 | 09/01/88 |
| | | | | | | | | | | 6.10 | 1.60 | | 7.0 | 2804 |
| SURFACE MINE | 9.40 | 31.60 | 62.10 | DICKENSON | 6.30 | 76.00 | 4.50 | 0.80 | W229084 | 370915 | 822807 | B | 13180 | 09/01/88 |
| | | | | | | | | | | 10.80 | 1.60 | | 0.5 | 2480 |
| | 2.90 | 31.30 | 62.00 | BUCHANAN | 6.70 | 81.30 | 4.90 | 0.60 | D170139 | 370917 | 815412 | B | 14370 | 09/01/88 |
| | | | | | | | | | | 5.00 | 1.50 | | 6.5 | 2624 |
| SURFACE MINE | 1.80 | 32.20 | 53.60 | WISE | 14.20 | 73.10 | 4.60 | 0.70 | W212490 | 370918 | 823259 | B | 13010 | 09/01/88 |
| | | | | | | | | | | 5.80 | 1.60 | | 6.5 | 2804 |
| SURFACE MINE | 4.50 | 34.10 | 58.70 | DICKENSON | 7.20 | 79.90 | 5.10 | 1.50 | W23083 | 370919 | 322808 | B | 14270 | 09/01/88 |
| | | | | | | | | | | 4.70 | 1.60 | | 7.5 | 2516 |
| | 1.90 | 27.30 | 68.40 | TAZEWELL | 4.30 | 84.10 | 4.90 | 1.20 | D170163 | 370924 | 814704 | B | 14840 | 09/01/88 |
| | | | | | | | | | | 4.00 | 1.50 | | 9.0 | 2138 |
| | 3.60 | 29.80 | 66.30 | TAZEWELL | 3.90 | 84.90 | 5.00 | 0.50 | D170140 | 370937 | 815131 | B | 14990 | 09/01/88 |
| | | | | | | | | | | 4.40 | 1.30 | | 8.5 | 2093 |
| UNDERGROUND MINE | 2.60 | 26.60 | 66.00 | BUCHANAN | 7.40 | 82.20 | 4.80 | 0.90 | W215875 | 370947 | 820738 | B | 14440 | 09/01/88 |
| | | | | | | | | | | 3.20 | 1.50 | | 7.5 | 2642 |
| UNDERGROUND MINE | 3.10 | 26.00 | 69.20 | BUCHANAN | 4.80 | 84.20 | 4.80 | 0.80 | W215876 | 370951 | 820027 | B | 14880 | 09/01/88 |
| | | | | | | | | | | 3.80 | 1.60 | | 8.0 | 2318 |
| UNDERGROUND MINE | 1.20 | 18.50 | 69.10 | BUCHANAN | 12.40 | 79.70 | 3.90 | 0.70 | W214764 | 370955 | 820101 | B | 13690 | 09/01/88 |
| | | | | | | | | | | 2.20 | 1.10 | | 7.5 | 2498 |
| SURFACE | 4.00 | 36.00 | 60.30 | DICKENSON | 3.70 | 83.10 | 5.60 | 0.90 | W204617 | 371003 | 822840 | B | 14860 | 09/01/88 |
| | | | | | | | | | | 4.90 | 1.80 | | 7.0 | 2363 |

Coal Field Information Printout for: VA - Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------|----------|-----------|----------|-----------|-----|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| SURFACE MINE | | | | DICKENSON | | | | | | | | | |
| 3.70 | 35.80 | 57.60 | 6.60 | | | 79.40 | 5.70 | 1.70 | 371003 | 822903 | B | 14270 | 09/01/88 |
| | | | | | | | | | 4.80 | 1.80 | | 8.0 | 2543 |
| UNDERGROUND MINE | | | | BUCHANAN | | | | | | | | | |
| 3.40 | 26.20 | 69.30 | 4.50 | | | 84.90 | 5.00 | 0.80 | 371004 | 820026 | B | 14980 | 09/01/88 |
| | | | | | | | | | 3.10 | 1.70 | | 8.0 | 2282 |
| UNDERGROUND MINE | | | | DICKENSON | | | | | | | | | |
| 2.10 | 38.80 | 56.20 | 5.00 | | | 80.60 | 5.40 | 1.30 | 371004 | 823111 | B | 14580 | 09/01/88 |
| | | | | | | | | | 5.80 | 1.90 | | 7.0 | 2291 |
| | | | | TAZEWELL | | | | | | | | | |
| 2.30 | 27.30 | 65.30 | 7.40 | | | 81.40 | 4.80 | 0.70 | 371012 | 814754 | B | 14330 | 09/01/88 |
| | | | | | | | | | 4.40 | 1.30 | | 8.5 | 2912 |
| UNDERGROUND MINE | | | | BUCHANAN | | | | | | | | | |
| 1.30 | 25.30 | 60.70 | 14.00 | | | 75.50 | 4.50 | 3.00 | 371012 | 820737 | B | 13570 | 09/01/88 |
| | | | | | | | | | 1.60 | 1.40 | | 6.0 | 2363 |
| SURFACE MINE | | | | BUCHANAN | | | | | | | | | |
| 1.70 | 25.50 | 57.20 | 17.30 | | | 72.70 | 4.50 | 1.00 | 371023 | 820556 | B | 12910 | 09/01/88 |
| | | | | | | | | | 3.20 | 1.30 | | 8.0 | 2804 |
| | | | | BUCHANAN | | | | | | | | | |
| 1.90 | 28.50 | 68.40 | 3.10 | | | 85.70 | 5.10 | 0.80 | 371029 | 815248 | B | 15080 | 09/01/88 |
| | | | | | | | | | 3.90 | 1.40 | | 9.0 | 2138 |
| | | | | TAZEWELL | | | | | | | | | |
| 2.60 | 31.00 | 65.70 | 3.30 | | | 85.30 | 5.10 | 0.90 | 371030 | 815026 | B | 15080 | 09/01/88 |
| | | | | | | | | | 3.90 | 1.50 | | 9.0 | 2300 |
| SURFACE MINE | | | | DICKENSON | | | | | | | | | |
| 3.80 | 35.90 | 62.20 | 1.90 | | | 85.50 | 5.40 | 0.70 | 371032 | 822656 | B | 15240 | 09/01/88 |
| | | | | | | | | | 4.90 | 1.60 | | 7.5 | 2390 |
| SURFACE MINE | | | | BUCHANAN | | | | | | | | | |
| 2.00 | 35.80 | 60.50 | 3.70 | | | 82.90 | 5.30 | 1.00 | 371035 | 822639 | B | 14850 | 09/01/88 |
| | | | | | | | | | 5.30 | 1.80 | | 7.0 | 2606 |
| SURFACE | | | | DICKENSON | | | | | | | | | |
| 3.90 | 32.90 | 59.80 | 7.30 | | | 79.40 | 5.10 | 0.80 | 371036 | 822537 | B | 14150 | 09/01/88 |
| | | | | | | | | | 5.80 | 1.60 | | 9.0 | 2804 |
| | | | | BUCHANAN | | | | | | | | | |
| 2.00 | 27.10 | 68.70 | 4.20 | | | 85.50 | 4.90 | 0.70 | 371039 | 815048 | B | 14990 | 09/01/88 |
| | | | | | | | | | 3.40 | 1.30 | | 8.0 | 2084 |
| SURFACE MINE | | | | DICKENSON | | | | | | | | | |
| 4.00 | 34.60 | 58.80 | 6.60 | | | 80.00 | 5.40 | 1.40 | 371040 | 822548 | B | 14370 | 09/01/88 |
| | | | | | | | | | 4.70 | 1.90 | | 9.0 | 2624 |
| SURFACE MINE | | | | DICKENSON | | | | | | | | | |
| 3.40 | 34.90 | 61.10 | 4.00 | | | 82.30 | 5.60 | 1.70 | 371042 | 822549 | B | 14830 | 09/01/88 |
| | | | | | | | | | 4.50 | 1.90 | | 9.0 | 2309 |
| UNDERGROUND MINE | | | | BUCHANAN | | | | | | | | | |
| 1.70 | 25.20 | 71.70 | 3.10 | | | 86.40 | 4.70 | 1.00 | 371043 | 820100 | B | 15140 | 09/01/88 |
| | | | | | | | | | 3.10 | 1.70 | | 8.0 | 2399 |
| | | | | BUCHANAN | | | | | | | | | |
| 2.20 | 26.70 | 70.70 | 2.60 | | | 86.90 | 5.00 | 0.50 | 371049 | 815206 | B | 15260 | 09/01/88 |
| | | | | | | | | | 3.70 | 1.30 | | 9.0 | 2039 |

Coal Field Information Printout for: VA - Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank Hardgrove | Htg Val Free Swell | Last Chg Hemi Temp |
|------------------|----------|-----------|----------|-----------|-------|--------|----------|--------|--------------------|-----------------------|-------------------|-----------------------|-----------------------|
| UNDERGROUND MINE | 1.10 | 19.00 | 70.90 | BUCHANAN | 10.10 | 80.60 | W214765 | 4.10 | 371050 | 820431 | B | 14050 | 09/01/88 |
| | | | | | | | | 0.80 | 3.20 | 1.20 | | 6.5 | 2480 |
| DRILLCORE | 2.40 | 39.90 | 54.00 | DICKENSON | 6.10 | 77.90 | W219343 | 5.30 | 371115 | 823241 | B | 14070 | 09/01/88 |
| | | | | | | | | 2.80 | 6.00 | 1.90 | | 5.0 | 2039 |
| UNDERGROUND MINE | 2.90 | 24.80 | 64.40 | BUCHANAN | 10.80 | 78.60 | W214768 | 4.60 | 371116 | 820634 | B | 13830 | 09/01/88 |
| | | | | | | | | 1.40 | 3.20 | 1.40 | | 8.0 | 2606 |
| | 3.40 | 27.40 | 68.90 | BUCHANAN | 3.70 | 86.40 | D170131 | 5.00 | 371118 | 815049 | B | 15140 | 09/01/88 |
| | | | | | | | | 0.70 | 2.90 | 1.30 | | 8.0 | 2156 |
| UNDERGROUND MINE | 1.30 | 24.90 | 54.40 | BUCHANAN | 20.70 | 69.50 | W217398 | 4.00 | 371126 | 820843 | B | 12200 | 09/01/88 |
| | | | | | | | | 0.60 | 4.00 | 1.20 | | 5.0 | 2804 |
| | 3.40 | 26.00 | 67.50 | TAZEWELL | 6.50 | 83.70 | D170142 | 4.70 | 371130 | 814134 | B | 14700 | 09/01/88 |
| | | | | | | | | 0.90 | 2.90 | 1.30 | | 9.0 | 2462 |
| | 3.20 | 28.10 | 62.60 | TAZEWELL | 9.30 | 78.90 | D170166 | 4.60 | 371131 | 814350 | B | 13980 | 09/01/88 |
| | | | | | | | | 2.70 | 3.40 | 1.10 | | 9.0 | 2111 |
| SURFACE MINE | 2.70 | 25.70 | 70.90 | BUCHANAN | 3.40 | 85.90 | W193932 | 4.90 | 371135 | 815215 | B | 15160 | 09/01/88 |
| | | | | | | | | 0.60 | 3.80 | 1.40 | | 9.0 | 2354 |
| | 8.10 | 28.10 | 64.70 | TAZEWELL | 7.20 | 78.80 | D170165 | 4.20 | 371137 | 814541 | B | 13600 | 09/01/88 |
| | | | | | | | | 1.00 | 7.50 | 1.30 | | 1.5 | 2264 |
| | 2.90 | 27.60 | 66.70 | TAZEWELL | 5.70 | 83.70 | D170164 | 4.90 | 371140 | 814544 | B | 14720 | 09/01/88 |
| | | | | | | | | 0.90 | 3.40 | 1.40 | | 9.0 | 2462 |
| | 2.30 | 24.00 | 68.60 | BUCHANAN | 7.40 | 82.60 | D170167 | 4.50 | 371141 | 815030 | B | 14500 | 09/01/88 |
| | | | | | | | | 0.70 | 3.40 | 1.40 | | 9.0 | 2462 |
| | 3.80 | 24.80 | 71.20 | BUCHANAN | 4.00 | 85.60 | D170130 | 4.90 | 371141 | 815114 | B | 15000 | 09/01/88 |
| | | | | | | | | 2.10 | 2.20 | 1.20 | | 9.0 | 2183 |
| SURFACE MINE | 4.50 | 29.80 | 61.90 | BUCHANAN | 8.30 | 80.70 | W1 4293 | 4.90 | 371148 | 820831 | B | 14430 | 09/01/88 |
| | | | | | | | | 1.00 | 3.50 | 1.60 | | 8.0 | 2804 |
| SURFACE MINE | 5.90 | 29.40 | 54.80 | BUCHANAN | 15.80 | 72.30 | W194305 | 4.50 | 371149 | 820842 | B | 13000 | 09/01/88 |
| | | | | | | | | 1.60 | 4.40 | 1.40 | | 8.5 | 2453 |
| SURFACE MINE | 2.70 | 30.30 | 57.40 | DICKENSON | 12.30 | 75.00 | W211675 | 4.70 | 371150 | 821554 | B | 13390 | 09/01/88 |
| | | | | | | | | 2.30 | 4.20 | 1.50 | | 9.0 | 2336 |
| SURFACE MINE | 2.70 | 31.20 | 57.50 | DICKENSON | 11.30 | 75.40 | W211174 | 4.80 | 371151 | 821555 | B | 13490 | 09/01/88 |
| | | | | | | | | 2.90 | 4.20 | 1.40 | | 9.0 | 2363 |

Coal Field Information Printout for: VA - Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Code Number | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------|----------|-----------|----------|-----------|-------|--------|----------|-------------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| 6.40 | 20.20 | 72.90 | 72.90 | TAZEWELL | 6.90 | 82.60 | 4.30 | W191030 | 0.60 | 371155 | 813913 | B | 14100 | 09/01/88 |
| | | | | | | | | | | 4.00 | 1.60 | | 1.0 | 2138 |
| SURFACE MINE | | | | BUCHANAN | 12.20 | 76.70 | 4.40 | W193950 | 1.30 | 371206 | 815739 | B | 13550 | 09/01/88 |
| 7.00 | 25.10 | 62.70 | 62.70 | | | | | | | 4.10 | 1.30 | | 9.0 | 2489 |
| SURFACE MINE | | | | BUCHANAN | 7.00 | 82.20 | 4.70 | W193948 | 1.70 | 371208 | 815737 | B | 14570 | 09/01/88 |
| 3.40 | 25.90 | 67.10 | 67.10 | | | | | | | 3.10 | 1.30 | | 9.0 | 2417 |
| UNDERGROUND MINE | | | | BUCHANAN | 5.60 | 86.10 | 4.30 | W214763 | 0.60 | 371212 | 815949 | B | 14740 | 09/01/88 |
| 1.60 | 18.30 | 76.10 | 76.10 | | | | | | | 2.30 | 1.10 | | 2.5 | 2309 |
| 1.40 | 23.70 | 71.00 | 71.00 | TAZEWELL | 5.30 | 83.10 | 4.90 | W191033 | 1.00 | 371215 | 814102 | B | 14780 | 09/01/88 |
| | | | | | | | | | | 4.40 | 1.30 | | 9.0 | 2237 |
| 1.80 | 24.40 | 72.10 | 72.10 | TAZEWELL | 3.50 | 85.30 | 4.80 | W191032 | 0.80 | 371219 | 814112 | B | 15110 | 09/01/88 |
| | | | | | | | | | | 4.20 | 1.40 | | 9.0 | 2264 |
| UNDERGROUND MINE | | | | BUCHANAN | 2.80 | 87.10 | 4.80 | W215412 | 0.70 | 371258 | 815939 | B | 15340 | 09/01/88 |
| 1.20 | 23.70 | 73.50 | 73.50 | | | | | | | 3.00 | 1.60 | | 9.0 | 2516 |
| DRILLCORE | | | | DICKENSON | 4.40 | 81.30 | 5.20 | W219406 | 0.80 | 371302 | 822858 | B | 14440 | 09/01/88 |
| 2.90 | 37.40 | 58.20 | 58.20 | | | | | | | 6.70 | 1.60 | | 5.5 | 2804 |
| SURFACE MINE | | | | BUCHANAN | 6.50 | 82.90 | 4.80 | W193947 | 0.70 | 371305 | 815430 | B | 14600 | 09/01/88 |
| 4.60 | 24.20 | 69.30 | 69.30 | | | | | | | 3.60 | 1.50 | | 9.0 | 2804 |
| UNDERGROUND MINE | | | | BUCHANAN | 16.20 | 75.70 | 3.90 | W193935 | 0.90 | 371315 | 820536 | B | 12990 | 09/01/88 |
| 1.20 | 15.50 | 68.30 | 68.30 | | | | | | | 2.30 | 1.00 | | 4.5 | 2804 |
| UNDERGROUND MINE | | | | BUCHANAN | 5.60 | 83.90 | 4.80 | W217397 | 0.70 | 371316 | 820652 | B | 14780 | 09/01/88 |
| 1.30 | 24.40 | 70.00 | 70.00 | | | | | | | 3.40 | 1.60 | | 9.0 | 2327 |
| SURFACE MINE | | | | BUCHANAN | 11.00 | 77.70 | 4.90 | W238474 | 1.00 | 371319 | 820858 | B | 13860 | 09/01/88 |
| 2.40 | 29.10 | 59.90 | 59.90 | | | | | | | 3.90 | 1.50 | | 8.0 | 2786 |
| SURFACE MINE | | | | BUCHANAN | 3.70 | 81.90 | 4.90 | W238475 | 1.00 | 371320 | 820855 | B | 14340 | 09/01/88 |
| 8.20 | 29.90 | 66.40 | 66.40 | | | | | | | 6.90 | 1.60 | | 2.5 | 2084 |
| UNDERGROUND MINE | | | | BUCHANAN | 5.80 | 81.80 | 5.10 | W217399 | 1.50 | 371323 | 820827 | B | 14620 | 09/01/88 |
| 1.30 | 31.20 | 63.00 | 63.00 | | | | | | | 4.50 | 1.30 | | 8.5 | 2030 |
| 1.90 | 23.10 | 72.70 | 72.70 | BUCHANAN | 4.20 | 86.20 | 4.80 | D170149 | 0.50 | 371325 | 815238 | B | 15080 | 09/01/88 |
| | | | | | | | | | | 3.00 | 1.30 | | 9.0 | 2363 |
| UNDERGROUND MINE | | | | BUCHANAN | 7.60 | 84.40 | 4.20 | W193933 | 0.60 | 371346 | 815946 | B | 14550 | 09/01/88 |
| 0.90 | 15.70 | 76.70 | 76.70 | | | | | | | 2.10 | 1.10 | | 3.5 | 2426 |

Coal Field Information Printout for: VA - Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Code Number | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------|----------|-----------|----------|-----------|--------|----------|-------------|----------|-----------|-----------|------------|-----------|
| | | | Ash | | | Sulfur | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| SURFACE MINE | 2.80 | 30.60 | 61.00 | BUCHANAN | 79.90 | 5.10 | W194298 | 371349 | 820807 | B | 14270 | 09/01/88 |
| | | | | | | 1.20 | | 3.90 | 1.50 | | 9.0 | 2642 |
| SURFACE MINE | 2.50 | 25.90 | 54.30 | BUCHANAN | 69.90 | 4.30 | W194300 | 371349 | 820809 | B | 12410 | 09/01/88 |
| | | | | | | 0.70 | | 4.00 | 1.30 | | 6.5 | 2804 |
| SURFACE MINE | 1.60 | 32.20 | 55.80 | DICKENSON | 74.20 | 4.80 | W236240 | 371356 | 821933 | B | 13400 | 09/01/88 |
| | | | | | | 3.70 | | 3.90 | 1.40 | | 9.0 | 2156 |
| UNDERGROUND MINE | 0.80 | 17.70 | 69.80 | BUCHANAN | 79.10 | 3.90 | W193934 | 371357 | 820428 | B | 13580 | 09/01/88 |
| | | | | | | 0.90 | | 2.60 | 1.00 | | 6.5 | 2309 |
| UNDERGROUND MINE | 1.60 | 20.60 | 75.10 | BUCHANAN | 86.50 | 4.50 | W214766 | 371358 | 820614 | B | 14900 | 09/01/88 |
| | | | | | | 0.60 | | 2.90 | 1.20 | | 5.0 | 2210 |
| SURFACE MINE | 5.10 | 27.00 | 51.90 | BUCHANAN | 67.70 | 4.30 | W194302 | 371358 | 820723 | B | 12060 | 09/01/88 |
| | | | | | | 1.30 | | 4.30 | 1.30 | | 9.0 | 2804 |
| SURFACE MINE | 4.10 | 22.40 | 44.50 | BUCHANAN | 56.90 | 3.60 | W194303 | 371359 | 820721 | B | 10110 | 09/01/88 |
| | | | | | | 1.40 | | 4.00 | 1.00 | | 8.5 | 2615 |
| SURFACE MINE | 2.30 | 26.40 | 57.10 | BUCHANAN | 73.10 | 4.50 | W194292 | 371400 | 820720 | B | 13010 | 09/01/88 |
| | | | | | | 1.00 | | 3.50 | 1.40 | | 8.5 | 2804 |
| SURFACE MINE | 1.80 | 33.70 | 63.40 | DICKENSON | 83.60 | 5.20 | W236241 | 371404 | 821938 | B | 15000 | 09/01/88 |
| | | | | | | 0.80 | | 5.90 | 1.60 | | 8.0 | 2597 |
| | 2.50 | 19.40 | 69.60 | BUCHANAN | 79.90 | 4.10 | D170158 | 371407 | 815028 | B | 13870 | 09/01/88 |
| | | | | | | 0.90 | | 2.80 | 1.30 | | 8.5 | 2912 |
| | 3.10 | 20.10 | 71.30 | BUCHANAN | 81.80 | 4.40 | D170157 | 371418 | 814930 | B | 14230 | 09/01/88 |
| | | | | | | 0.60 | | 3.20 | 1.40 | | 9.0 | 2912 |
| | 1.70 | 25.50 | 66.10 | TAZEWELL | 81.20 | 4.70 | D170151 | 371420 | 812859 | B | 14230 | 09/01/88 |
| | | | | | | 0.50 | | 3.90 | 1.30 | | 8.5 | 2912 |
| | 0.90 | 28.10 | 68.00 | TAZEWELL | 86.20 | 4.90 | D170150 | 371422 | 812909 | B | 15140 | 09/01/88 |
| | | | | | | 0.50 | | 3.10 | 1.40 | | 7.0 | 2471 |
| UNDERGROUND MINE | 2.80 | 32.00 | 57.60 | DICKENSON | 77.10 | 4.90 | W211676 | 371427 | 822038 | B | 13590 | 09/01/88 |
| | | | | | | 0.60 | | 5.50 | 1.50 | | 7.5 | 2804 |
| UNDERGROUND MINE | 2.30 | 29.60 | 54.00 | DICKENSON | 71.60 | 4.70 | W211677 | 371429 | 822027 | B | 12930 | 09/01/88 |
| | | | | | | 0.80 | | 4.90 | 1.60 | | 7.5 | 2651 |
| UNDERGROUND MINE | 2.80 | 28.10 | 61.90 | BUCHANAN | 77.80 | 4.70 | W211771 | 371433 | 820904 | B | 13840 | 09/01/88 |
| | | | | | | 2.10 | | 3.90 | 1.50 | | 6.5 | 2462 |

Coal Field Information Printout for: VA - Virginia

| Location | Moisture | Volatiles | Fxd Crbn | Ash | County | Carbon | Hydrogen | Sulfur | Oxygen | Latitude | Longitude | Rank | Htg Val | Free Swell | Hemi Temp | Last Chg |
|-------------------------|-----------|-----------|----------|--------|----------|----------|----------|--------|----------|-----------|-----------|---------|------------|------------|-----------|----------|
| Moisture | Volatiles | Fxd Crbn | Ash | County | Carbon | Hydrogen | Sulfur | Oxygen | Latitude | Longitude | Rank | Htg Val | Free Swell | Hemi Temp | Last Chg | |
| LESLIE COAL CO MINE | 3.00 | 25.90 | 64.90 | 9.20 | TAZEWELL | 81.10 | 4.60 | 0.60 | 371434 | 812940 | B | 14210 | 8.0 | 2912 | 09/01/88 | |
| SURFACE MINE | 13.20 | 26.10 | 60.10 | 13.80 | BUCHANAN | 69.10 | 4.00 | 0.60 | 371434 | 820954 | B | 11520 | 0.0 | 2723 | 09/01/88 | |
| UNDERGROUND MINE | 3.10 | 32.10 | 65.60 | 2.30 | BUCHANAN | 84.60 | 4.80 | 1.40 | 371436 | 820926 | B | 15160 | 9.0 | 2102 | 09/01/88 | |
| UNDERGROUND MINE | 1.40 | 18.30 | 78.00 | 3.70 | BUCHANAN | 87.00 | 4.20 | 0.70 | 371437 | 820136 | B | 14990 | 3.5 | 2336 | 09/01/88 | |
| SURFACE MINE | 2.20 | 31.40 | 65.60 | 3.00 | BUCHANAN | 84.60 | 5.30 | 1.20 | 371439 | 820949 | B | 15090 | 8.0 | 2201 | 09/01/88 | |
| UNDERGROUND MINE | 2.00 | 19.80 | 71.40 | 8.80 | BUCHANAN | 81.90 | 4.40 | 0.70 | 371440 | 815050 | B | 14210 | 9.0 | 2732 | 09/01/88 | |
| CONSOL LAUREL NO 2 MINE | 2.10 | 26.80 | 63.60 | 9.60 | TAZEWELL | 80.10 | 4.70 | 0.80 | 371445 | 812802 | B | 14150 | 7.0 | 2732 | 09/01/88 | |
| UNDERGROUND MINE | 1.50 | 17.90 | 77.70 | 4.40 | BUCHANAN | 86.30 | 4.20 | 0.70 | 371448 | 815713 | B | 14960 | 3.0 | 2381 | 09/01/88 | |
| UNDERGROUND MINE | 4.30 | 18.70 | 71.10 | 10.20 | BUCHANAN | 79.70 | 4.20 | 0.80 | 371449 | 815022 | B | 13750 | 2.5 | 2912 | 09/01/88 | |
| UNDERGROUND MINE | 1.90 | 21.20 | 71.10 | 7.70 | TAZEWELL | 82.70 | 4.40 | 0.50 | 371450 | 812958 | B | 14240 | 9.0 | 2408 | 09/01/88 | |
| UNDERGROUND MINE | 1.60 | 27.50 | 66.70 | 5.80 | BUCHANAN | 82.20 | 4.70 | 1.20 | 371453 | 820847 | B | 14410 | 6.0 | 2714 | 09/01/88 | |
| UNDERGROUND MINE | 2.40 | 21.20 | 76.30 | 2.50 | BUCHANAN | 88.10 | 4.50 | 0.60 | 371500 | 814802 | B | 15310 | 9.0 | 2111 | 09/01/88 | |
| UNDERGROUND MINE | 1.90 | 21.30 | 68.90 | 9.80 | TAZEWELL | 80.90 | 4.50 | 0.60 | 371501 | 812909 | B | 14180 | 9.0 | 2507 | 09/01/88 | |
| UNDERGROUND MINE | 2.00 | 22.10 | 69.30 | 8.60 | TAZEWELL | 82.10 | 4.60 | 0.70 | 371502 | 812954 | B | 14340 | 9.0 | 2471 | 09/01/88 | |
| SURFACE MINE | 2.50 | 31.80 | 61.30 | 6.90 | BUCHANAN | 80.70 | 5.20 | 1.50 | 371503 | 821054 | B | 14390 | 9.0 | 2444 | 09/01/88 | |
| UNDERGROUND MINE | 1.90 | 25.30 | 71.00 | 3.70 | TAZEWELL | 85.90 | 4.90 | 1.10 | 371515 | 812959 | B | 15030 | 9.0 | 2237 | 09/01/88 | |

Coal Field Information Printout for: VA - Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank Hardgrove | Htg Val Free Swell | Last Chg Hemi Temp |
|-------------------------|----------|-----------|----------|------------|--------|-----------------|--------|--------------------|-----------------------|-------------------|-----------------------|-----------------------|
| SURFACE | 3.60 | 24.20 | 46.50 | BUCHANAN | 60.80 | W204620 3.80 | 0.60 | 371519 4.40 | 821011 1.10 | B | 10690 4.5 | 09/01/88 2804 |
| UNDERGROUND MINE | 2.60 | 30.00 | 61.30 | BUCHANAN | 79.20 | W217401 5.00 | 1.20 | 371529 4.30 | 820811 1.60 | B | 14100 8.5 | 09/01/88 2210 |
| SURFACE MINE | 2.50 | 28.30 | 68.70 | BUCHANAN | 84.70 | W194297 5.00 | 0.90 | 371536 5.00 | 820713 1.40 | B | 15100 9.0 | 09/01/88 2255 |
| SURFACE MINE | 2.40 | 26.50 | 52.80 | BUCHANAN | 68.50 | W194295 4.30 | 0.60 | 371548 4.70 | 820713 1.20 | B | 12210 8.0 | 09/01/88 2804 |
| AUGER MINE, LAUREL FORK | 2.80 | 27.60 | 68.00 | TAZEWELL | 84.50 | W191521 4.90 | 0.80 | 371600 4.20 | 812645 1.20 | B | 14850 9.0 | 09/01/88 2408 |
| UNDERGROUND MINE | 1.60 | 27.90 | 67.10 | BUCHANAN | 82.90 | W217688 4.90 | 0.60 | 371615 4.90 | 821112 1.70 | B | 14600 8.0 | 09/01/88 2777 |
| | 2.00 | 20.70 | 72.70 | BUCHANAN | 83.60 | D170160 4.40 | 0.60 | 371617 3.40 | 815332 1.40 | B | 14540 9.0 | 09/01/88 2912 |
| SURFACE MINE | 3.60 | 29.10 | 61.90 | BUCHANAN | 78.60 | W193671 5.00 | 1.50 | 371638 4.30 | 821025 1.60 | B | 14040 8.5 | 09/01/88 2588 |
| SURFACE MINE | 2.00 | 36.30 | 56.60 | BUCHANAN | 79.30 | W238483 5.30 | 2.70 | 371717 4.00 | 821520 1.60 | B | 14400 6.0 | 09/01/88 2021 |
| SURFACE MINE | 1.90 | 35.90 | 51.60 | BUCHANAN | 73.40 | W193673 4.90 | 4.00 | 371746 3.80 | 821502 1.40 | B | 13370 8.5 | 09/01/88 2138 |
| UNDERGROUND MINE | 1.40 | 29.80 | 59.10 | BUCHANAN | 77.20 | W217593 4.80 | 1.60 | 371748 3.80 | 820808 1.50 | B | 13670 6.0 | 09/01/88 2624 |
| UNDERGROUND MINE | 2.60 | 29.90 | 62.30 | BUCHANAN | 80.10 | W218976 5.00 | 1.20 | 371805 4.20 | 820002 1.70 | B | 14210 8.5 | 09/01/88 2480 |
| | 3.00 | 22.30 | 74.60 | BUCHANAN | 87.70 | D170141 4.70 | 0.60 | 371813 2.50 | 814504 1.40 | B | 15250 9.0 | 09/01/88 2237 |
| DRILLCORE | 4.90 | 10.20 | 51.00 | MONTGOMERY | 52.70 | W219210 2.60 | 0.30 | 371817 5.00 | 801930 0.60 | B | 8750 0.0 | 09/01/88 2804 |
| UNDERGROUND MINE | 1.60 | 28.50 | 65.30 | BUCHANAN | 81.50 | W218974 5.10 | 1.10 | 371821 4.40 | 820108 1.70 | B | 14530 9.0 | 09/01/88 2588 |
| UNDERGROUND MINE | 1.70 | 32.30 | 59.90 | BUCHANAN | 79.60 | W217686 5.00 | 1.00 | 371822 5.00 | 821327 1.60 | B | 14180 9.0 | 09/01/88 2660 |

Coal Field Information Printout for: VA - Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------|----------|-----------|----------|----------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| UNDERGROUND MINE | 1.50 | 34.20 | 59.70 | BUCHANAN | 6.10 | 81.10 | W217685 | 1.30 | 371823 | 821329 | B | 14440 | 09/01/88 |
| | | | | | | | 5.10 | | 4.70 | 1.70 | | 7.0 | 2498 |
| UNDERGROUND MINE | 2.70 | 31.80 | 61.50 | BUCHANAN | 6.70 | 80.10 | W218771 | 1.20 | 371824 | 820546 | B | 14500 | 09/01/88 |
| | | | | | | | 4.90 | | 5.40 | 1.70 | | 8.0 | 2606 |
| SURFACE MINE | 2.90 | 34.00 | 63.90 | BUCHANAN | 2.10 | 85.20 | W218770 | 1.10 | 371833 | 821218 | B | 15250 | 09/01/88 |
| | | | | | | | 5.10 | | 4.80 | 1.70 | | 8.0 | 2228 |
| UNDERGROUND MINE | 2.00 | 32.90 | 60.30 | BUCHANAN | 6.80 | 80.30 | W217689 | 0.60 | 371848 | 821309 | B | 14350 | 09/01/88 |
| | | | | | | | 5.10 | | 5.70 | 1.50 | | 8.5 | 2804 |
| SURFACE MINE | 1.60 | 31.80 | 65.10 | BUCHANAN | 3.10 | 84.50 | W223355 | 0.70 | 371913 | 820349 | B | 15040 | 09/01/88 |
| | | | | | | | 5.20 | | 4.80 | 1.70 | | 8.5 | 2660 |
| UNDERGROUND MINE | 2.40 | 29.70 | 52.00 | BUCHANAN | 18.30 | 69.60 | W218774 | 0.80 | 371926 | 820617 | B | 12520 | 09/01/88 |
| | | | | | | | 4.50 | | 5.40 | 1.40 | | 6.5 | 2804 |
| SURFACE MINE | 3.50 | 29.70 | 55.40 | BUCHANAN | 14.90 | 72.70 | W218973 | 0.70 | 372000 | 820549 | B | 12900 | 09/01/88 |
| | | | | | | | 4.90 | | 5.30 | 1.50 | | 8.0 | 2804 |
| UNDERGROUND MINE | 2.50 | 33.10 | 61.50 | BUCHANAN | 5.40 | 81.60 | W218775 | 1.70 | 372006 | 820608 | B | 14650 | 09/01/88 |
| | | | | | | | 5.10 | | 4.60 | 1.60 | | 8.0 | 2192 |
| UNDERGROUND MINE | 1.50 | 30.00 | 61.40 | BUCHANAN | 8.60 | 79.00 | W225106 | 0.70 | 372010 | 820210 | B | 14040 | 09/01/88 |
| | | | | | | | 4.90 | | 5.20 | 1.60 | | 8.0 | 2651 |
| UNDERGROUND MINE | 2.20 | 31.50 | 62.10 | BUCHANAN | 6.40 | 81.30 | W218772 | 1.20 | 372010 | 820645 | B | 14590 | 09/01/88 |
| | | | | | | | 4.60 | | 4.90 | 1.60 | | 7.0 | 2552 |
| UNDERGROUND MINE | 2.40 | 31.80 | 63.80 | BUCHANAN | 4.40 | 83.90 | W218773 | 0.80 | 372010 | 820654 | B | 14900 | 09/01/88 |
| | | | | | | | 5.10 | | 4.20 | 1.60 | | 7.5 | 2588 |
| UNDERGROUND MINE | 2.70 | 29.50 | 63.60 | BUCHANAN | 6.90 | 81.20 | W218769 | 0.70 | 372055 | 821040 | B | 14400 | 09/01/88 |
| | | | | | | | 4.90 | | 4.70 | 1.60 | | 7.0 | 2804 |
| UNDERGROUND MINE | 3.20 | 29.00 | 63.40 | BUCHANAN | 7.60 | 81.00 | W218765 | 0.60 | 372103 | 821402 | B | 14310 | 09/01/88 |
| | | | | | | | 4.80 | | 4.40 | 1.60 | | 7.5 | 2624 |
| UNDERGROUND MINE | 1.40 | 29.60 | 62.90 | BUCHANAN | 7.50 | 80.70 | W223359 | 0.70 | 372117 | 820849 | B | 14330 | 09/01/88 |
| | | | | | | | 4.90 | | 4.60 | 1.60 | | 7.5 | 2804 |
| UNDERGROUND MINE | 3.20 | 28.90 | 64.40 | BUCHANAN | 6.70 | 81.40 | W223360 | 0.70 | 372118 | 820846 | B | 14440 | 09/01/88 |
| | | | | | | | 4.90 | | 4.70 | 1.60 | | 7.5 | 2804 |
| UNDERGROUND MINE | 2.70 | 32.90 | 62.50 | BUCHANAN | 4.60 | 83.30 | W218768 | 1.10 | 372131 | 821033 | B | 14680 | 09/01/88 |
| | | | | | | | 4.80 | | 4.60 | 1.60 | | 8.5 | 2453 |

Coal Field Information Printout for: VA - Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Code Number | | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------|----------|-----------|----------|-----------|--------|-------------|---------|----------|-----------|-----------|------------|-----------|
| | | | | Ash | | Hydrogen | Sulfur | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| SURFACE MINE | | | | BUCHANAN | | | | | | | | |
| 2.20 | 30.90 | 62.50 | 6.60 | 81.20 | 5.10 | 1.00 | 4.40 | 820227 | B | 14390 | 8.0 | 2687 |
| UNDERGROUND MINE | | | | BUCHANAN | | | | | | | | |
| 1.90 | 30.30 | 64.20 | 5.50 | 82.30 | 5.00 | 0.70 | 4.90 | 820619 | B | 14620 | 7.5 | 2804 |
| SURFACE MINE | | | | BUCHANAN | | | | | | | | |
| 1.90 | 33.40 | 61.50 | 5.10 | 82.30 | 5.00 | 1.10 | 4.90 | 820230 | B | 14630 | 8.0 | 2516 |
| UNDERGROUND MINE | | | | BUCHANAN | | | | | | | | |
| 1.10 | 33.40 | 58.80 | 7.80 | 79.00 | 5.20 | 0.80 | 5.50 | 820534 | B | 14220 | 7.5 | 2804 |
| UNDERGROUND MINE | | | | BUCHANAN | | | | | | | | |
| 2.40 | 35.10 | 58.90 | 6.00 | 78.30 | 5.10 | 4.10 | 4.90 | 821142 | B | 14170 | 8.0 | 2030 |
| SURFACE MINE | | | | BUCHANAN | | | | | | | | |
| 1.40 | 29.70 | 52.70 | 17.60 | 70.50 | 4.50 | 0.80 | 5.20 | 820520 | B | 12550 | 7.5 | 2804 |
| SURFACE MINE | | | | BUCHANAN | | | | | | | | |
| 3.30 | 34.30 | 59.10 | 6.60 | 81.10 | 5.40 | 0.80 | 4.40 | 815758 | B | 14410 | 9.0 | 2804 |
| UNDERGROUND MINE | | | | BUCHANAN | | | | | | | | |
| 2.10 | 33.10 | 63.50 | 3.40 | 83.50 | 5.30 | 0.80 | 5.30 | 815950 | B | 14830 | 8.5 | 2516 |
| DRILLCORE | | | | BOTETOURT | | | | | | | | |
| 4.30 | 10.70 | 66.30 | 23.00 | 70.00 | 3.20 | 0.70 | 2.30 | 795952 | A | 11820 | 0.5 | 2552 |
| SURFACE MINE | | | | WISE | | | | | | | | |
| 16.50 | 31.30 | 64.20 | 4.50 | 74.30 | 4.40 | 0.70 | 14.60 | 823309 | B | 12710 | 0.0 | 2246 |
| SURFACE MINE | | | | WISE | | | | | | | | |
| 15.70 | 32.40 | 63.40 | 4.20 | 75.40 | 4.40 | 0.50 | 37.5855 | 823309 | B | 12740 | 0.0 | 2291 |

Coal Field Information Printout for

WA - Washington

Coal Field Information Printout for: WA - Washington

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------|----------|-----------|----------|----------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| ----- | | | | | | | | | | | | | |
| 15.80 | 37.80 | 47.00 | 51.30 | ASOTIN | 15.20 | 59.00 | 3.10 | 0.40 | 460310 | 1172035 | L | 9280 | 09/01/88 |
| | | | | | | | | | 21.60 | 0.70 | | 0.0 | 2282 |
| ----- | | | | | | | | | | | | | |
| 2.40 | 23.40 | 51.30 | 25.30 | PIERCE | 25.30 | 62.30 | 4.00 | 0.60 | 464530 | 1220210 | B | 10930 | 09/01/88 |
| | | | | | | | | | 6.20 | 1.60 | | 1.0 | 2804 |
| ----- | | | | | | | | | | | | | |
| 19.30 | 40.80 | 41.20 | 18.00 | THURSTON | 18.00 | 59.60 | 4.40 | 0.50 | 464631 | 1224600 | SB | 10310 | 09/01/88 |
| | | | | | | | | | 16.50 | 1.00 | | 0.0 | 2399 |
| ----- | | | | | | | | | | | | | |
| 11.80 | 20.90 | 49.70 | 29.40 | PIERCE | 29.40 | 54.20 | 2.80 | 0.70 | 470415 | 1220040 | B | 8890 | 09/01/88 |
| | | | | | | | | | 10.90 | 2.00 | | 0.0 | 2804 |
| ----- | | | | | | | | | | | | | |
| 6.20 | 21.70 | 54.40 | 23.90 | KING | 23.90 | 61.90 | 3.30 | 0.40 | 472148 | 1215850 | B | 10290 | 09/01/88 |
| | | | | | | | | | 9.30 | 1.20 | | 0.0 | 2912 |
| ----- | | | | | | | | | | | | | |
| 8.70 | 29.20 | 51.20 | 19.60 | WHATCOM | 19.60 | 62.90 | 3.30 | 0.40 | 485030 | 1215845 | A | 10300 | 09/01/88 |
| | | | | | | | | | 12.60 | 1.20 | | 0.0 | 2912 |
| ----- | | | | | | | | | | | | | |
| 4.00 | 15.10 | 50.70 | 34.20 | WHATCOM | 34.20 | 53.50 | 2.20 | 0.40 | 485114 | 1215804 | SA | 8300 | 09/01/88 |
| | | | | | | | | | 9.10 | 0.60 | | 0.0 | 2912 |
| ----- | | | | | | | | | | | | | |
| 3.60 | 28.70 | 35.70 | 35.60 | WHATCOM | 35.60 | 51.80 | 3.70 | 0.40 | 485254 | 1220742 | SA | 9210 | 09/01/88 |
| | | | | | | | | | 7.00 | 1.50 | | 4.0 | 2300 |

Coal Field Information Printout for
WV - West Virginia

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------------------|----------|-----------|----------|----------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | Ash | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| 2.20 | 21.80 | 73.90 | 4.30 | MCDOWELL | 86.00 | 4.70 | 0.50 | 371530 | 812943 | B | 14990 | 09/01/88 |
| | | | | | | | | 3.20 | 1.30 | | 9.0 | 2246 |
| 2.60 | 21.60 | 74.00 | 4.40 | MCDOWELL | 86.20 | 4.60 | 0.60 | 371611 | 813019 | B | 14900 | 09/01/88 |
| | | | | | | | | 3.00 | 1.20 | | 9.0 | 2912 |
| US STEEL NO 14 MINE, RD FORK | 4.90 | 25.20 | 69.80 | MCDOWELL | 85.50 | 4.80 | 0.70 | 371616 | 812758 | B | 14990 | 09/01/88 |
| | | | | | | | | 2.70 | 1.30 | | 9.0 | 2354 |
| CONSOL JENKIN JONES MINE | 2.40 | 23.50 | 69.90 | MCDOWELL | 83.80 | 4.50 | 0.60 | 371645 | 812530 | B | 14660 | 09/01/88 |
| | | | | | | | | 3.30 | 1.20 | | 9.0 | 2129 |
| STR BNCH, BALLARD HARMON BR | 6.20 | 24.00 | 63.80 | MCDOWELL | 75.40 | 4.10 | 0.60 | 371700 | 812650 | B | 12930 | 09/01/88 |
| | | | | | | | | 6.60 | 1.10 | | 1.5 | 2561 |
| UNDERGROUND | 2.40 | 16.70 | 80.30 | MCDOWELL | 88.40 | 4.40 | 0.70 | 371730 | 813450 | B | 15320 | 09/01/88 |
| | | | | | | | | 2.30 | 1.20 | | 9.0 | 2246 |
| UNDERGROUND | 2.50 | 16.60 | 66.30 | MCDOWELL | 74.30 | 3.90 | 0.70 | 371948 | 813831 | B | 12890 | 09/01/88 |
| | | | | | | | | 2.70 | 1.30 | | 9.0 | 2804 |
| UNDERGROUND | 1.40 | 15.40 | 75.10 | MCDOWELL | 81.50 | 4.10 | 1.40 | 372020 | 813957 | B | 14170 | 09/01/88 |
| | | | | | | | | 2.20 | 1.30 | | 5.0 | 2561 |
| UNDERGROUND | 1.20 | 15.40 | 79.90 | MCDOWELL | 87.30 | 4.40 | 0.60 | 372049 | 813747 | B | 15110 | 09/01/88 |
| | | | | | | | | 1.90 | 1.10 | | 8.0 | 2318 |
| UNDERGROUND | 1.70 | 16.30 | 73.50 | MCDOWELL | 80.60 | 4.10 | 1.50 | 372114 | 814025 | B | 14070 | 09/01/88 |
| | | | | | | | | 2.20 | 1.40 | | 7.0 | 2552 |
| UNDERGROUND | 2.10 | 17.00 | 77.30 | MCDOWELL | 85.80 | 4.40 | 0.70 | 372116 | 813136 | B | 14930 | 09/01/88 |
| | | | | | | | | 2.20 | 1.20 | | 9.0 | 2785 |
| UNDERGROUND | 2.50 | 17.00 | 76.50 | MCDOWELL | 84.30 | 4.30 | 0.90 | 372116 | 813957 | B | 14730 | 09/01/88 |
| | | | | | | | | 2.60 | 1.40 | | 8.5 | 2561 |
| UNDERGROUND | 3.20 | 16.10 | 78.90 | MCDOWELL | 86.50 | 4.30 | 0.70 | 372121 | 813058 | B | 14940 | 09/01/88 |
| | | | | | | | | 2.30 | 1.20 | | 7.0 | 2651 |
| UNDERGROUND | 1.00 | 15.30 | 78.00 | MCDOWELL | 85.20 | 4.10 | 0.50 | 372146 | 814123 | B | 14660 | 09/01/88 |
| | | | | | | | | 2.30 | 1.20 | | 0.0 | 2354 |
| UNDERGROUND | 1.50 | 15.20 | 78.70 | MCDOWELL | 85.30 | 4.20 | 0.80 | 372200 | 813614 | B | 14760 | 09/01/88 |
| | | | | | | | | 2.40 | 1.20 | | 7.5 | 2291 |
| UNDERGROUND | 1.50 | 24.80 | 71.30 | MCDOWELL | 85.30 | 4.70 | 0.60 | 372202 | 815041 | B | 15060 | 09/01/88 |
| | | | | | | | | 4.10 | 1.40 | | 8.5 | 2084 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Code Number | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-------------|----------|-----------|----------|----------|--------|----------|-------------|--------|----------|-----------|-----------|------------|-----------|
| | | | Ash | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| UNDERGROUND | 3.00 | 15.50 | 77.20 | MCDOWELL | 84.50 | 4.20 | W193964 | 0.80 | 372220 | 813218 | B | 14600 | 09/01/88 |
| | | | | | | | | | 2.10 | 1.10 | | 8.0 | 2723 |
| UNDERGROUND | 1.50 | 25.50 | 58.30 | MCDOWELL | 82.10 | 4.90 | W192714 | 1.30 | 372225 | 815007 | B | 14590 | 09/01/88 |
| | | | | | | | | | 3.90 | 1.60 | | 9.0 | 2219 |
| UNDERGROUND | 3.30 | 18.00 | 72.80 | MCDOWELL | 82.20 | 4.50 | W194010 | 0.60 | 372243 | 812730 | B | 14350 | 09/01/88 |
| | | | | | | | | | 2.30 | 1.20 | | 9.0 | 2804 |
| UNDERGROUND | 2.30 | 17.30 | 79.60 | MCDOWELL | 87.70 | 4.40 | W194004 | 0.60 | 372251 | 813717 | B | 15330 | 09/01/88 |
| | | | | | | | | | 2.80 | 1.40 | | 8.5 | 2552 |
| UNDERGROUND | 1.40 | 27.30 | 68.10 | MCDOWELL | 83.20 | 5.20 | W192713 | 0.80 | 372305 | 815402 | B | 14830 | 09/01/88 |
| | | | | | | | | | 4.60 | 1.60 | | 9.0 | 2606 |
| UNDERGROUND | 1.00 | 14.40 | 78.50 | MCDOWELL | 85.10 | 4.10 | W193982 | 0.50 | 372404 | 814058 | B | 14610 | 09/01/88 |
| | | | | | | | | | 2.10 | 1.10 | | 3.5 | 2642 |
| STRIP | 3.10 | 20.50 | 76.00 | MCDOWELL | 87.00 | 4.60 | W193981 | 0.60 | 372406 | 812125 | B | 15230 | 09/01/88 |
| | | | | | | | | | 2.90 | 1.40 | | 9.0 | 2804 |
| UNDERGROUND | 2.40 | 16.90 | 73.30 | MCDOWELL | 81.50 | 4.10 | W193970 | 0.60 | 372420 | 813555 | B | 14120 | 09/01/88 |
| | | | | | | | | | 2.60 | 1.40 | | 9.0 | 2804 |
| UNDERGROUND | 3.40 | 17.50 | 71.20 | MCDOWELL | 79.70 | 4.10 | W193969 | 1.10 | 372437 | 814023 | B | 13880 | 09/01/88 |
| | | | | | | | | | 2.50 | 1.30 | | 9.0 | 2804 |
| STRIP | 0.60 | 18.10 | 73.90 | MCDOWELL | 82.00 | 4.50 | W191874 | 0.80 | 372445 | 813328 | B | 14180 | 09/01/88 |
| | | | | | | | | | 4.00 | 0.70 | | 9.0 | 2678 |
| UNDERGROUND | 2.70 | 14.80 | 76.90 | MCDOWELL | 83.20 | 4.40 | W193961 | 0.80 | 372446 | 813037 | B | 14430 | 09/01/88 |
| | | | | | | | | | 2.20 | 1.10 | | 8.0 | 2804 |
| UNDERGROUND | 1.50 | 19.20 | 71.10 | MCDOWELL | 80.50 | 4.40 | W193980 | 1.20 | 372450 | 812152 | B | 14100 | 09/01/88 |
| | | | | | | | | | 2.90 | 1.30 | | 9.0 | 2507 |
| UNDERGROUND | 2.30 | 19.40 | 72.30 | MCDOWELL | 82.70 | 4.40 | W193988 | 0.70 | 372458 | 813442 | B | 14400 | 09/01/88 |
| | | | | | | | | | 2.50 | 1.40 | | 9.0 | 2804 |
| UNDERGROUND | 2.30 | 17.50 | 64.20 | MCDOWELL | 73.50 | 3.90 | W194015 | 1.10 | 372502 | 812017 | B | 12860 | 09/01/88 |
| | | | | | | | | | 2.00 | 1.20 | | 8.5 | 2651 |
| UNDERGROUND | 2.60 | 20.30 | 74.00 | MCDOWELL | 84.70 | 4.50 | W193968 | 0.70 | 372520 | 814122 | B | 14820 | 09/01/88 |
| | | | | | | | | | 2.90 | 1.50 | | 9.0 | 2804 |
| UNDERGROUND | 2.10 | 18.80 | 73.60 | MCDOWELL | 83.30 | 4.60 | W194986 | 1.00 | 372600 | 812828 | B | 14540 | 09/01/88 |
| | | | | | | | | | 2.30 | 1.20 | | 9.0 | 2750 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-----------------|----------|-----------|----------|----------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | Ash | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| POCAHONTAS NO 2 | 7.00 | 19.40 | 73.20 | MERCER | 80.60 | 3.90 | 0.50 | 372612 | 811358 | B | 13630 | 09/01/88 |
| | | | | | | | | 6.40 | 1.20 | | 1.0 | 2651 |
| 0.80 | 18.50 | 77.20 | 4.30 | MERCER | 86.60 | 4.50 | 1.10 | 372618 | 811626 | B | 15130 | 09/01/88 |
| | | | | | | | | 2.30 | 1.20 | | 9.0 | 2345 |
| UNDERGROUND | 2.30 | 19.30 | 75.70 | MCDOWELL | 85.50 | 4.50 | 1.30 | 372620 | 812742 | B | 14960 | 09/01/88 |
| | | | | | | | | 2.40 | 1.30 | | 9.0 | 2345 |
| UNDERGROUND | 2.00 | 16.00 | 50.30 | WYOMING | 58.10 | 3.40 | 0.80 | 372624 | 812004 | B | 10200 | 09/01/88 |
| | | | | | | | | 3.00 | 1.00 | | 8.0 | 2804 |
| UNDERGROUND | 2.30 | 17.50 | 75.90 | WYOMING | 85.40 | 4.30 | 0.80 | 372635 | 812225 | B | 14950 | 09/01/88 |
| | | | | | | | | 1.60 | 1.30 | | 9.0 | 2714 |
| UNDERGROUND | 2.50 | 18.70 | 75.00 | MCDOWELL | 84.20 | 4.50 | 1.10 | 372700 | 814120 | B | 14750 | 09/01/88 |
| | | | | | | | | 2.50 | 1.40 | | 9.0 | 2651 |
| UNDERGROUND | 3.60 | 19.40 | 68.70 | MCDOWELL | 78.00 | 4.40 | 1.60 | 372714 | 814209 | B | 13680 | 09/01/88 |
| | | | | | | | | 3.20 | 0.90 | | 9.0 | 2669 |
| UNDERGROUND | 1.90 | 17.90 | 70.40 | WYOMING | 80.20 | 4.20 | 1.20 | 372727 | 812252 | B | 13930 | 09/01/88 |
| | | | | | | | | 1.50 | 1.20 | | 9.0 | 2606 |
| UNDERGROUND | 3.20 | 32.60 | 64.70 | MCDOWELL | 83.40 | 5.10 | 1.00 | 372727 | 815648 | B | 14850 | 09/01/88 |
| | | | | | | | | 6.30 | 1.50 | | 9.0 | 2237 |
| UNDERGROUND | 1.70 | 18.30 | 78.00 | MCDOWELL | 87.30 | 4.60 | 0.60 | 372749 | 813731 | B | 15240 | 09/01/88 |
| | | | | | | | | 2.30 | 1.50 | | 9.0 | 2615 |
| UNDERGROUND | 2.30 | 15.80 | 76.70 | MCDOWELL | 84.50 | 4.00 | 0.60 | 372750 | 812808 | B | 14510 | 09/01/88 |
| | | | | | | | | 2.30 | 1.10 | | 4.5 | 2462 |
| UNDERGROUND | 2.40 | 16.50 | 75.00 | WYOMING | 83.00 | 4.10 | 0.50 | 372835 | 812308 | B | 14390 | 09/01/88 |
| | | | | | | | | 2.80 | 1.10 | | 7.0 | 2399 |
| POCAHONTAS NO 3 | 1.40 | 29.00 | 42.30 | MERCER | 58.80 | 4.10 | 0.90 | 372845 | 811045 | B | 10410 | 09/01/88 |
| | | | | | | | | 6.30 | 1.20 | | 6.0 | 2804 |
| UNDERGROUND | 3.20 | 31.20 | 53.60 | MCDOWELL | 68.40 | 4.60 | 4.40 | 372854 | 815751 | B | 12630 | 09/01/88 |
| | | | | | | | | 6.20 | 1.20 | | 8.5 | 2219 |
| 0.50 | 12.90 | 48.70 | 38.40 | WYOMING | 54.20 | 2.80 | 0.40 | 372921 | 811834 | B | 9260 | 09/01/88 |
| | | | | | | | | 3.50 | 0.70 | | 8.5 | 2804 |
| UNDERGROUND | 3.10 | 17.20 | 75.80 | WYOMING | 83.50 | 4.20 | 1.90 | 372926 | 812421 | B | 14530 | 09/01/88 |
| | | | | | | | | 2.30 | 1.10 | | 8.0 | 2345 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Code Number | Latitude | Longitude | Rank | Htg Val | Last Chg |
|--------------|----------|-----------|----------|----------|--------|----------|-------------|----------|-----------|-----------|------------|-----------|
| | | | Ash | | | Sulfur | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| UNDERGROUND | 2.70 | 29.50 | 65.70 | MCDOWELL | 83.10 | 5.00 | W191111 | 372933 | 815059 | B | 14780 | 09/01/88 |
| | | | | | | 2.00 | | 3.50 | 1.60 | | 9.0 | 2192 |
| UNDERGROUND | 3.60 | 30.20 | 60.40 | MCDOWELL | 78.10 | 5.20 | W191108 | 372933 | 815210 | B | 13860 | 09/01/88 |
| | | | | | | 1.30 | | 4.90 | 1.10 | | 8.5 | 2732 |
| UNDERGROUND | 1.50 | 17.10 | 72.10 | MERCER | 80.40 | 4.10 | W192728 | 372934 | 811456 | B | 14010 | 09/01/88 |
| | | | | | | 0.50 | | 3.00 | 1.20 | | 8.0 | 2912 |
| UNDERGROUND | 2.40 | 17.00 | 77.80 | WYOMING | 86.60 | 4.50 | W192720 | 372942 | 812200 | B | 14940 | 09/01/88 |
| | | | | | | 0.50 | | 2.10 | 1.10 | | 8.0 | 2408 |
| UNDERGROUND | 2.50 | 16.10 | 77.00 | WYOMING | 85.10 | 4.10 | W194016 | 372951 | 812034 | B | 14710 | 09/01/88 |
| | | | | | | 0.50 | | 2.30 | 1.10 | | 7.5 | 2804 |
| STRIP | 1.70 | 19.20 | 76.10 | WYOMING | 86.70 | 4.60 | W192722 | 373003 | 812125 | B | 14980 | 09/01/88 |
| | | | | | | 0.50 | | 2.20 | 1.30 | | 7.0 | 2588 |
| UNDERGROUND | 3.10 | 19.20 | 78.30 | WYOMING | 87.80 | 4.80 | W193992 | 373017 | 813443 | B | 15370 | 09/01/88 |
| | | | | | | 0.80 | | 2.60 | 1.50 | | 9.0 | 2516 |
| STRIP MINE | 2.60 | 31.30 | 64.80 | MCDOWELL | 82.70 | 5.20 | W191110 | 373031 | 815406 | B | 14490 | 09/01/88 |
| | | | | | | 1.00 | | 6.50 | 0.70 | | 8.5 | 2579 |
| | 3.80 | 20.00 | 75.90 | WYOMING | 86.10 | 4.60 | D165681 | 373046 | 811520 | B | 14920 | 09/01/88 |
| | | | | | | 0.70 | | 2.90 | 1.60 | | 8.0 | 2912 |
| UNDERGROUND | 1.20 | 23.10 | 57.60 | WYOMING | 68.80 | 4.30 | W19.129 | 373047 | 814710 | B | 12150 | 09/01/88 |
| | | | | | | 2.10 | | 4.80 | 0.70 | | 9.0 | 2633 |
| SEWELL STRIP | 0.70 | 19.40 | 70.90 | MERCER | 80.30 | 4.50 | W194370 | 373100 | 811320 | B | 14150 | 09/01/88 |
| | | | | | | 0.70 | | 3.40 | 1.40 | | 9.0 | 2804 |
| STRIP MINE | 2.00 | 31.50 | 65.70 | MCDOWELL | 84.20 | 5.50 | W191130 | 373115 | 815221 | B | 14830 | 09/01/88 |
| | | | | | | 0.80 | | 5.70 | 1.00 | | 9.0 | 2363 |
| UNDERGROUND | 1.50 | 17.60 | 75.50 | WYOMING | 83.90 | 4.30 | W192733 | 373126 | 812704 | B | 14550 | 09/01/88 |
| | | | | | | 0.50 | | 3.20 | 1.20 | | 7.0 | 2408 |
| UNDERGROUND | 1.20 | 25.70 | 67.80 | WYOMING | 81.80 | 5.00 | W191131 | 373149 | 814724 | B | 14430 | 09/01/88 |
| | | | | | | 1.70 | | 4.10 | 0.90 | | 9.0 | 2390 |
| UNDERGROUND | 2.50 | 32.00 | 62.20 | WYOMING | 80.70 | 5.20 | W191107 | 373157 | 814812 | B | 14470 | 09/01/88 |
| | | | | | | 1.10 | | 5.80 | 1.40 | | 9.0 | 2444 |
| UNDERGROUND | 1.80 | 30.40 | 53.20 | MINGO | 70.30 | 4.70 | W189349 | 373203 | 815417 | B | 12620 | 09/01/88 |
| | | | | | | 3.10 | | 4.20 | 1.30 | | 7.0 | 2237 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | Ash | County | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-------------|----------|-----------|----------|-------|---------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| UNDERGROUND | 2.80 | 21.90 | 69.80 | 8.30 | WYOMING | 82.10 | 4.50 | 0.90 | 373248 | 813756 | B | 14370 | 09/01/88 |
| | | | | | | | | | 2.80 | 1.40 | | 9.0 | 2732 |
| UNDERGROUND | 3.00 | 28.40 | 56.40 | 15.20 | WYOMING | 72.60 | 4.60 | 4.40 | 373257 | 814741 | B | 13140 | 09/01/88 |
| | | | | | | | | | 1.80 | 1.40 | | 9.0 | 2138 |
| UNDERGROUND | 2.50 | 19.30 | 73.10 | 7.60 | WYOMING | 81.70 | 4.50 | 1.50 | 373302 | 812533 | B | 14380 | 09/01/88 |
| | | | | | | | | | 3.40 | 1.30 | | 9.0 | 2408 |
| UNDERGROUND | 1.60 | 17.10 | 72.10 | 10.80 | WYOMING | 79.80 | 4.30 | 1.10 | 373307 | 812650 | B | 13870 | 09/01/88 |
| | | | | | | | | | 2.90 | 1.10 | | 7.0 | 2561 |
| UNDERGROUND | 2.70 | 19.40 | 73.80 | 6.80 | WYOMING | 83.60 | 4.60 | 0.60 | 373319 | 813409 | B | 14600 | 09/01/88 |
| | | | | | | | | | 3.00 | 1.40 | | 9.0 | 2912 |
| STRIP | 2.70 | 15.20 | 73.70 | 11.10 | WYOMING | 80.60 | 4.10 | 0.50 | 373324 | 812206 | B | 13870 | 09/01/88 |
| | | | | | | | | | 2.60 | 1.10 | | 4.0 | 2714 |
| UNDERGROUND | 1.20 | 16.60 | 67.30 | 16.10 | WYOMING | 74.60 | 4.10 | 0.70 | 373324 | 812529 | B | 12930 | 09/01/88 |
| | | | | | | | | | 3.50 | 1.00 | | 6.5 | 2912 |
| STRIP | 2.50 | 30.90 | 57.70 | 11.40 | MINGO | 76.10 | 4.70 | 1.10 | 373327 | 815435 | B | 13490 | 09/01/88 |
| | | | | | | | | | 5.40 | 1.30 | | 7.5 | 2750 |
| STRIP | 9.50 | 21.30 | 75.40 | 3.30 | WYOMING | 86.30 | 4.80 | 1.30 | 373356 | 812555 | B | 15130 | 09/01/88 |
| | | | | | | | | | 2.80 | 1.50 | | 9.0 | 2489 |
| UNDERGROUND | 1.60 | 42.70 | 41.30 | 16.00 | MINGO | 70.80 | 4.70 | 1.50 | 373404 | 820615 | B | 12540 | 09/01/88 |
| | | | | | | | | | 5.70 | 1.30 | | 7.0 | 2777 |
| STRIP | 5.70 | 34.10 | 58.50 | 7.40 | MINGO | 77.10 | 4.50 | 1.00 | 373406 | 820619 | B | 13380 | 09/01/88 |
| | | | | | | | | | 8.60 | 1.40 | | 1.5 | 2300 |
| UNDERGROUND | 2.90 | 33.10 | 60.00 | 6.90 | MINGO | 80.30 | 5.00 | 0.80 | 373409 | 815150 | B | 14250 | 09/01/88 |
| | | | | | | | | | 5.60 | 1.40 | | 7.5 | 2750 |
| UNDERGROUND | 2.80 | 32.10 | 62.70 | 5.20 | MINGO | 81.80 | 5.00 | 0.70 | 373432 | 815205 | B | 14550 | 09/01/88 |
| | | | | | | | | | 5.90 | 1.40 | | 8.5 | 2912 |
| STRIP | 3.60 | 33.70 | 59.80 | 6.50 | MINGO | 80.50 | 5.10 | 0.70 | 373439 | 820017 | B | 14390 | 09/01/88 |
| | | | | | | | | | 5.70 | 1.50 | | 9.0 | 2795 |
| STRIP | 3.90 | 33.90 | 62.90 | 3.20 | MINGO | 82.20 | 5.00 | 0.70 | 373458 | 815300 | B | 14370 | 09/01/88 |
| | | | | | | | | | 7.90 | 1.00 | | 4.5 | 2579 |
| | 1.90 | 23.50 | 73.10 | 3.40 | WYOMING | 86.40 | 4.90 | 0.90 | 373515 | 812902 | B | 15210 | 09/01/88 |
| | | | | | | | | | 2.90 | 1.50 | | 9.0 | 2255 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carb3a | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-----------------------------|----------|-----------|----------|---------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| UNDERGROUND | 1.50 | 18.60 | 74.90 | WYOMING | 6.50 | 83.30 | 4.50 | 1.50 | 373545 | 812550 | B | 14610 | 09/01/88 |
| | | | | | | | | | 2.80 | 1.40 | | 9.0 | 2192 |
| UNDERGROUND | 4.80 | 30.80 | 62.90 | MINGO | 6.30 | 78.80 | 4.70 | 0.60 | 373559 | 815554 | B | 13760 | 09/01/88 |
| | | | | | | | | | 8.10 | 1.50 | | 1.0 | 2804 |
| UNDERGROUND | 1.70 | 18.10 | 72.50 | WYOMING | 9.40 | 81.40 | 4.30 | 0.90 | 373609 | 812331 | B | 14040 | 09/01/88 |
| | | | | | | | | | 2.90 | 1.10 | | 5.5 | 2732 |
| UNDERGROUND | 5.20 | 33.00 | 53.00 | MINGO | 14.00 | 72.50 | 4.70 | 0.80 | 373621 | 820800 | B | 12850 | 09/01/88 |
| | | | | | | | | | 6.60 | 1.40 | | 6.0 | 2678 |
| UNDERGROUND | 2.00 | 32.80 | 57.40 | MINGO | 9.80 | 77.30 | 4.80 | 1.50 | 373635 | 820313 | B | 13650 | 09/01/88 |
| | | | | | | | | | 5.20 | 1.40 | | 7.5 | 2354 |
| POCAHONTAS NO 6 | 0.60 | 17.20 | 78.10 | RALEIGH | 4.70 | 85.60 | 4.40 | 1.60 | 373700 | 811045 | B | 14910 | 09/01/88 |
| | | | | | | | | | 2.40 | 1.30 | | 8.5 | 2417 |
| UNDERGROUND | 2.30 | 22.30 | 75.40 | WYOMING | 2.30 | 87.60 | 4.80 | 0.50 | 373702 | 813358 | B | 15390 | 09/01/88 |
| | | | | | | | | | 3.30 | 1.50 | | 9.0 | 2804 |
| STRIP | 4.00 | 26.60 | 69.90 | WYOMING | 3.50 | 84.60 | 5.00 | 0.60 | 373709 | 813636 | B | 14910 | 09/01/88 |
| | | | | | | | | | 4.70 | 1.60 | | 8.0 | 2651 |
| UNDERGROUND | 2.00 | 16.00 | 79.30 | RALEIGH | 4.70 | 86.60 | 4.50 | 0.90 | 373741 | 811012 | B | 15040 | 09/01/88 |
| | | | | | | | | | 2.10 | 1.20 | | 8.0 | 2804 |
| NO 5 MINE, JUMAERTS COAL CO | 2.40 | 34.80 | 58.60 | MINGO | 6.60 | 80.10 | 5.10 | 0.80 | 373750 | 815729 | B | 14300 | 09/01/88 |
| | | | | | | | | | 5.90 | 1.50 | | 8.0 | 2912 |
| STRIP | 3.70 | 17.80 | 77.80 | RALEIGH | 4.40 | 85.80 | 4.60 | 1.00 | 373751 | 811023 | B | 15020 | 09/01/88 |
| | | | | | | | | | 2.50 | 1.70 | | 9.0 | 2354 |
| UNDERGROUND | 2.30 | 33.60 | 58.10 | MINGO | 8.30 | 78.40 | 5.20 | 0.90 | 373812 | 820518 | B | 14030 | 09/01/88 |
| | | | | | | | | | 5.70 | 1.50 | | 9.0 | 2804 |
| UNDERGROUND | 3.10 | 35.10 | 57.90 | MINGO | 7.00 | 79.20 | 5.10 | 1.00 | 373831 | 820632 | B | 14160 | 09/01/88 |
| | | | | | | | | | 6.20 | 1.50 | | 9.0 | 2804 |
| UNDERGROUND | 2.30 | 37.20 | 58.70 | MINGO | 4.10 | 82.00 | 5.40 | 0.80 | 373846 | 820938 | B | 14720 | 09/01/88 |
| | | | | | | | | | 6.20 | 1.50 | | 7.5 | 2804 |
| | 1.30 | 17.60 | 79.40 | RALEIGH | 3.00 | 87.10 | 4.60 | 0.70 | 373900 | 810345 | B | 15110 | 09/01/88 |
| | | | | | | | | | 3.10 | 1.50 | | 1.0 | 2696 |
| UNDERGROUND | 2.80 | 35.10 | 56.20 | MINGO | 8.70 | 76.40 | 5.20 | 1.20 | 373907 | 821222 | B | 13580 | 09/01/88 |
| | | | | | | | | | 7.70 | 0.80 | | 0.0 | 2804 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank | Htg Val Free Swell | Last Chg Hemi Temp |
|-----------------|----------|-----------|----------|---------|-------|--------|----------|--------|--------------------|-----------------------|------|-----------------------|-----------------------|
| UNDERGROUND | 2.90 | 35.20 | 61.60 | MINGO | 3.20 | 83.40 | W191119 | 0.70 | 373941 | 815258 | B | 14820 | 09/01/88 2912 |
| POCAHONTAS NO 3 | 0.70 | 14.50 | 72.80 | MERCER | 12.70 | 79.00 | W194387 | 0.50 | 373945 | 810250 | B | 13540 | 09/01/88 2804 |
| UNDERGROUND | 2.60 | 33.10 | 59.70 | MINGO | 7.20 | 78.70 | W190674 | 0.60 | 373948 | 821159 | B | 13900 | 09/01/88 2759 |
| STRIP | 1.30 | 33.40 | 63.00 | WYOMING | 3.60 | 83.10 | W193951 | 0.90 | 373956 | 814234 | B | 14880 | 09/01/88 2804 |
| UNDERGROUND | 2.70 | 35.10 | 58.10 | MINGO | 6.80 | 79.00 | W191868 | 1.50 | 374003 | 815308 | B | 14170 | 09/01/88 2579 |
| UNDERGROUND | 3.20 | 33.90 | 55.60 | MINGO | 10.50 | 75.90 | W191873 | 0.50 | 374012 | 821437 | B | 13400 | 09/01/88 2813 |
| STRIP | 1.60 | 34.70 | 52.50 | LOGAN | 12.80 | 73.90 | W195044 | 3.00 | 374021 | 815123 | B | 13420 | 09/01/88 2543 |
| STRIP | 3.00 | 33.90 | 58.90 | LOGAN | 7.20 | 78.70 | W195068 | 1.60 | 374021 | 815419 | B | 14060 | 09/01/88 2453 |
| UNDERGROUND | 4.10 | 33.00 | 57.60 | MINGO | 9.40 | 76.90 | W190675 | 0.70 | 374026 | 821433 | B | 13620 | 09/01/88 2912 |
| STRIP | 3.50 | 34.70 | 55.60 | BOONE | 9.70 | 76.90 | W195041 | 0.80 | 374036 | 815148 | B | 13670 | 09/01/88 2804 |
| STRIP | 2.00 | 36.40 | 57.70 | LOGAN | 5.90 | 80.80 | W195043 | 0.60 | 374037 | 815145 | B | 14430 | 09/01/88 2804 |
| UNDERGROUND | 2.00 | 34.70 | 54.80 | LOGAN | 10.50 | 75.80 | W195067 | 1.50 | 374039 | 815152 | B | 13630 | 09/01/88 2579 |
| UNDERGROUND | 5.90 | 32.10 | 61.70 | LOGAN | 6.20 | 75.60 | W189294 | 0.50 | 374040 | 815130 | B | 12940 | 09/01/88 2786 |
| UNDERGROUND | 2.50 | 34.80 | 61.70 | LOGAN | 3.50 | 83.40 | W195066 | 0.60 | 374046 | 815133 | B | 14890 | 09/01/88 2606 |
| STRIP | 1.60 | 34.80 | 53.90 | LOGAN | 11.30 | 75.90 | W195042 | 0.60 | 374046 | 815148 | B | 13550 | 09/01/88 2804 |
| UNDERGROUND | 1.90 | 34.40 | 56.90 | LOGAN | 8.70 | 76.60 | W189295 | 1.70 | 374047 | 815130 | B | 13640 | 09/01/88 2507 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Oxygen | Sulfur | Code Number | Latitude | Longitude | Rank | Free Swell | Htg Val | Last Chg |
|-------------|----------|-----------|----------|---------|-------|--------|----------|--------|--------|-------------|----------|-----------|------|------------|---------|----------|
| UNDERGROUND | 1.80 | 33.80 | 62.00 | LOGAN | 4.20 | 81.80 | 5.30 | 6.80 | 0.50 | W189293 | 374048 | 814820 | B | 14490 | 7.5 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2696 |
| UNDERGROUND | 2.60 | 35.30 | 60.20 | LOGAN | 4.50 | 81.60 | 5.20 | 6.50 | 0.70 | W195054 | 374049 | 815320 | B | 14590 | 9.0 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2759 |
| UNDERGROUND | 1.80 | 35.80 | 54.60 | LOGAN | 9.60 | 76.50 | 5.00 | 5.30 | 2.30 | W195056 | 374054 | 815328 | B | 13790 | 8.0 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2309 |
| UNDERGROUND | 3.90 | 39.80 | 56.70 | MINGO | 3.50 | 81.10 | 5.50 | 7.60 | 0.60 | W195037 | 374116 | 821356 | B | 14520 | 5.5 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2759 |
| STRIP | 4.40 | 32.70 | 52.70 | MINGO | 14.60 | 70.80 | 4.50 | 7.90 | 0.80 | W193955 | 374120 | 820710 | B | 12410 | 1.0 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2804 |
| UNDERGROUND | 4.00 | 35.90 | 52.60 | MINGO | 11.50 | 73.70 | 4.80 | 7.70 | 0.80 | W189338 | 374123 | 821545 | B | 13080 | 2.5 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2912 |
| STRIP | 3.10 | 34.50 | 54.80 | LOGAN | 10.70 | 75.50 | 5.00 | 6.50 | 0.90 | W195022 | 374139 | 815630 | B | 13520 | 8.0 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2804 |
| UNDERGROUND | 1.50 | 34.30 | 55.80 | WYOMING | 9.90 | 76.60 | 5.10 | 6.50 | 0.60 | W189292 | 374153 | 814310 | B | 13680 | 8.5 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2912 |
| UNDERGROUND | 2.60 | 34.90 | 59.90 | LOGAN | 5.20 | 81.50 | 5.10 | 5.80 | 0.90 | W195060 | 374158 | 815313 | B | 14510 | 9.0 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2804 |
| UNDERGROUND | 2.10 | 35.60 | 55.20 | LOGAN | 9.20 | 77.20 | 5.10 | 6.00 | 1.10 | W195057 | 374204 | 815410 | B | 13800 | 8.5 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2768 |
| STRIP | 4.60 | 33.20 | 65.00 | LOGAN | 1.80 | 84.10 | 5.20 | 6.80 | 0.60 | W195036 | 374224 | 814739 | B | 14900 | 6.0 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2462 |
| UNDERGROUND | 2.90 | 33.20 | 57.10 | LOGAN | 9.70 | 76.90 | 4.90 | 6.40 | 0.70 | W191125 | 374229 | 814740 | B | 13650 | 7.5 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2912 |
| UNDERGROUND | 1.90 | 35.70 | 58.70 | LOGAN | 5.60 | 81.60 | 5.10 | 5.60 | 0.70 | W195058 | 374314 | 815500 | B | 14520 | 8.5 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2543 |
| UNDERGROUND | 3.30 | 31.50 | 64.10 | WYOMING | 4.40 | 83.40 | 5.10 | 5.10 | 0.60 | W195024 | 374354 | 814025 | B | 14760 | 9.0 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2804 |
| UNDERGROUND | 3.00 | 36.70 | 53.70 | MINGO | 9.60 | 75.40 | 5.00 | 7.50 | 1.10 | W189337 | 374359 | 821137 | B | 13520 | 4.5 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2912 |
| UNDERGROUND | 3.20 | 33.60 | 62.60 | LOGAN | 3.80 | 81.70 | 5.20 | 6.20 | 1.40 | W195021 | 374423 | 815643 | B | 14670 | 9.0 | 09/01/88 |
| | | | | | | | | | | | | | | | | 2147 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------------------------|----------|-----------|----------|---------|-------|--------|----------|--------|----------|-----------|------|---------|----------|
| UNDERGROUND | 3.10 | 33.20 | 53.40 | LOGAN | 3.40 | 83.00 | 5.20 | 0.90 | 374447 | 815438 | B | 14800 | 09/01/88 |
| | | | | | | | | | 6.10 | 1.40 | | 8.5 | 2057 |
| UNDERGROUND | 1.40 | 32.90 | 56.40 | LOGAN | 8.70 | 77.70 | 5.10 | 0.60 | 374511 | 815108 | B | 13860 | 09/01/88 |
| | | | | | | | | | 6.80 | 1.10 | | 9.0 | 2912 |
| STRIP | 5.20 | 35.40 | 57.50 | MINGO | 7.10 | 77.20 | 5.00 | 0.80 | 374524 | 821805 | B | 13690 | 09/01/88 |
| | | | | | | | | | 8.40 | 1.50 | | 3.0 | 2786 |
| MAPLE MEADOW MINE | 1.20 | 18.50 | 69.90 | RALEIGH | 11.60 | 79.20 | 4.10 | 0.40 | 374527 | 812150 | B | 13770 | 09/01/88 |
| | | | | | | | | | 3.50 | 1.20 | | 9.0 | 2912 |
| STRIP | 4.20 | 38.30 | 54.30 | MINGO | 7.40 | 77.60 | 5.10 | 0.70 | 374528 | 821815 | B | 13920 | 09/01/88 |
| | | | | | | | | | 7.60 | 1.60 | | 5.0 | 2804 |
| UNDERGROUND | 3.60 | 35.70 | 59.20 | WYOMING | 5.10 | 81.60 | 5.60 | 0.90 | 374553 | 814207 | B | 14560 | 09/01/88 |
| | | | | | | | | | 5.60 | 1.20 | | 9.0 | 2669 |
| UNDERGROUND | 4.70 | 31.70 | 64.00 | WYOMING | 4.30 | 83.10 | 5.30 | 2.60 | 374623 | 812925 | B | 14820 | 09/01/88 |
| | | | | | | | | | 3.70 | 1.00 | | 9.0 | 2228 |
| BELVA COAL CO. MINE 5A | 5.90 | 35.10 | 54.70 | LOGAN | 10.20 | 74.70 | 4.70 | 0.90 | 374626 | 815843 | B | 13160 | 09/01/88 |
| | | | | | | | | | 8.10 | 1.40 | | 2.0 | 2894 |
| STRIP | 3.70 | 29.00 | 47.30 | LOGAN | 23.70 | 64.10 | 4.20 | 1.10 | 374627 | 814118 | B | 11410 | 09/01/88 |
| | | | | | | | | | 5.80 | 1.10 | | 4.5 | 2804 |
| STRIP | 2.70 | 31.60 | 58.30 | LOGAN | 10.10 | 77.00 | 4.80 | 0.90 | 374631 | 814049 | B | 13780 | 09/01/88 |
| | | | | | | | | | 5.80 | 1.40 | | 6.0 | 2804 |
| WEDGEWOOD MINING | 5.00 | 33.90 | 49.60 | LOGAN | 16.50 | 68.80 | 4.30 | 0.80 | 374642 | 815256 | B | 12060 | 09/01/88 |
| | | | | | | | | | 8.40 | 1.20 | | 1.5 | 2912 |
| UNDERGROUND | 2.40 | 32.60 | 58.30 | LOGAN | 9.10 | 78.30 | 5.50 | 0.60 | 374644 | 815040 | B | 13890 | 09/01/88 |
| | | | | | | | | | 5.50 | 1.00 | | 8.5 | 2912 |
| ELKAY MINING CO. WADE NO 1 | 5.50 | 38.10 | 53.00 | LOGAN | 8.90 | 76.60 | 5.10 | 0.80 | 374645 | 815404 | B | 13750 | 09/01/88 |
| | | | | | | | | | 7.10 | 1.50 | | 4.5 | 2912 |
| UNDERGROUND | 2.30 | 34.90 | 56.80 | LOGAN | 8.30 | 77.70 | 5.20 | 1.80 | 374647 | 815028 | B | 13910 | 09/01/88 |
| | | | | | | | | | 5.90 | 1.10 | | 9.0 | 2543 |
| | 1.70 | 32.20 | 56.80 | LOGAN | 11.00 | 76.40 | 5.10 | 0.70 | 374650 | 814431 | B | 13600 | 09/01/88 |
| | | | | | | | | | 5.70 | 1.10 | | 8.5 | 2912 |
| STRIP | 2.80 | 17.50 | 74.90 | RALEIGH | 7.60 | 82.90 | 4.30 | 1.60 | 374654 | 810827 | B | 14450 | 09/01/88 |
| | | | | | | | | | 2.40 | 1.20 | | 7.0 | 2561 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------------------|----------|-----------|----------|---------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| ELK MINING CO, MINE 1 | 2.60 | 35.30 | 58.40 | LOGAN | 6.30 | 81.00 | 5.10 | 1.10 | 374734 | 814021 | B | 14460 | 09/01/88 |
| | | | | | | | | | 5.10 | 1.40 | | 7.0 | 2723 |
| PERRY BRANCH COAL CO, MINE 1 | 3.20 | 32.00 | 45.20 | LOGAN | 22.80 | 64.80 | 4.30 | 0.60 | 374758 | 814645 | B | 11450 | 09/01/88 |
| | | | | | | | | | 6.40 | 1.10 | | 4.0 | 2912 |
| UNDERGROUND | 3.10 | 32.10 | 54.20 | LOGAN | 13.70 | 73.80 | 4.60 | 0.70 | 374804 | 814817 | B | 13000 | 09/01/88 |
| | | | | | | | | | 5.90 | 1.30 | | 7.5 | 2804 |
| | 3.20 | 35.80 | 58.50 | LOGAN | 5.70 | 81.30 | 5.20 | 0.90 | 374810 | 814034 | B | 14500 | 09/01/88 |
| | | | | | | | | | 5.50 | 1.40 | | 7.5 | 2516 |
| STRIP | 4.60 | 27.40 | 69.20 | RALEIGH | 3.40 | 85.30 | 5.00 | 2.00 | 374818 | 812802 | B | 15160 | 09/01/88 |
| | | | | | | | | | 2.90 | 1.40 | | 9.0 | 2192 |
| CORE | 2.80 | 32.70 | 60.00 | LOGAN | 7.30 | 79.70 | 5.10 | 1.10 | 374818 | 814613 | B | 14260 | 09/01/88 |
| | | | | | | | | | 5.40 | 1.40 | | 9.0 | 2741 |
| MINE 8B, BUFFALO MINING CO | 2.60 | 34.20 | 49.70 | LOGAN | 16.10 | 71.50 | 4.60 | 0.90 | 374820 | 813952 | B | 12670 | 09/01/88 |
| | | | | | | | | | 5.60 | 1.30 | | 6.0 | 2912 |
| UNDERGROUND | 3.90 | 25.20 | 45.50 | LOGAN | 29.30 | 59.00 | 3.80 | 0.60 | 374830 | 814554 | B | 10370 | 09/01/88 |
| | | | | | | | | | 6.30 | 1.00 | | 3.0 | 2804 |
| UNDERGROUND | 2.50 | 35.80 | 53.60 | LOGAN | 10.60 | 76.80 | 5.00 | 0.90 | 374841 | 814811 | B | 13630 | 09/01/88 |
| | | | | | | | | | 5.40 | 1.30 | | 7.0 | 2912 |
| UNDERGROUND | 0.40 | 38.70 | 53.60 | LOGAN | 7.70 | 80.80 | 5.80 | 0.70 | 374842 | 824045 | B | 14770 | 09/01/88 |
| | | | | | | | | | 3.50 | 1.50 | | 4.5 | 2228 |
| B&S COAL CO, MINE 1 | 5.50 | 30.50 | 47.30 | LOGAN | 22.20 | 66.00 | 4.10 | 0.40 | 374845 | 814624 | B | 11590 | 09/01/88 |
| | | | | | | | | | 6.10 | 1.20 | | 2.5 | 2912 |
| UNDERGROUND | 3.50 | 18.00 | 73.50 | SUMMERS | 8.50 | 82.10 | 4.40 | 1.10 | 374857 | 805230 | B | 14280 | 09/01/88 |
| | | | | | | | | | 2.60 | 1.30 | | 9.0 | 2804 |
| UNDERGROUND | 2.30 | 20.00 | 77.30 | RALEIGH | 2.70 | 86.80 | 5.10 | 0.70 | 374913 | 810846 | B | 15250 | 09/01/88 |
| | | | | | | | | | 3.10 | 1.60 | | 9.0 | 2804 |
| UNDERGROUND | 1.30 | 29.80 | 50.40 | LOGAN | 19.80 | 67.50 | 4.60 | 0.90 | 374916 | 814755 | B | 12000 | 09/01/88 |
| | | | | | | | | | 6.20 | 1.00 | | 5.5 | 2912 |
| UNDERGROUND | 2.60 | 35.40 | 53.40 | LOGAN | 11.20 | 75.50 | 4.90 | 1.60 | 374918 | 815240 | B | 13440 | 09/01/88 |
| | | | | | | | | | 5.40 | 1.40 | | 6.0 | 2678 |
| YOUNGSTOWN MINES, DEHUE 7B | 2.20 | 34.70 | 57.90 | LOGAN | 7.40 | 78.50 | 5.10 | 0.60 | 374925 | 815629 | B | 14000 | 09/01/88 |
| | | | | | | | | | 6.90 | 1.50 | | 8.0 | 2912 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Code Number | | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-------------|----------|-----------|----------|---------|--------|----------|-------------|--------|----------|-----------|------------|-----------|----------|
| | | | | Ash | | | Sulfur | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp | |
| UNDERGROUND | 3.10 | 38.70 | 54.80 | MINGO | 6.50 | 78.10 | W191872 | 374955 | 822301 | B | 13960 | 09/01/88 | |
| | | | | | | | 5.20 | 0.80 | 1.30 | | 3.5 | 2912 | |
| UNDERGROUND | 2.40 | 32.90 | 55.20 | BOONE | 11.90 | 75.80 | W194984 | 375009 | 813739 | B | 13520 | 09/01/88 | |
| | | | | | | | 4.80 | 1.00 | 1.40 | | 7.5 | 2615 | |
| UNDERGROUND | 2.60 | 30.90 | 58.70 | RALEIGH | 10.40 | 77.90 | W189342 | 375047 | 813332 | B | 13740 | 09/01/88 | |
| | | | | | | | 4.90 | 0.60 | 1.20 | | 7.5 | 2912 | |
| STRIP | 3.80 | 36.70 | 49.70 | LOGAN | 13.60 | 72.20 | W195018 | 375047 | 815657 | B | 12900 | 09/01/88 | |
| | | | | | | | 4.80 | 0.70 | 1.50 | | 7.5 | 2804 | |
| STRIP | 3.10 | 19.10 | 70.70 | FAYETTE | 10.20 | 78.30 | W206338 | 375056 | 805823 | B | 13910 | 09/01/88 | |
| | | | | | | | 4.80 | 1.00 | 1.70 | | 9.0 | 2750 | |
| UNDERGROUND | 2.10 | 31.10 | 59.60 | RALEIGH | 9.30 | 78.70 | W191123 | 375057 | 813325 | B | 14000 | 09/01/88 | |
| | | | | | | | 5.10 | 0.70 | 1.00 | | 9.0 | 2912 | |
| UNDERGROUND | 3.60 | 32.60 | 58.60 | RALEIGH | 8.80 | 79.10 | W191121 | 375143 | 813254 | B | 14170 | 09/01/88 | |
| | | | | | | | 5.00 | 2.30 | 1.20 | | 8.5 | 2147 | |
| UNDERGROUND | 3.60 | 36.70 | 59.40 | MINGO | 3.90 | 80.20 | W190676 | 375148 | 822305 | B | 14240 | 09/01/88 | |
| | | | | | | | 5.40 | 0.80 | 0.80 | | 5.5 | 2102 | |
| STRIP | 4.90 | 29.70 | 58.40 | RALEIGH | 11.90 | 74.40 | W191902 | 375231 | 813336 | B | 13240 | 09/01/88 | |
| | | | | | | | 4.90 | 1.00 | 1.10 | | 8.5 | 2912 | |
| STRIP | 4.30 | 32.50 | 57.90 | RALEIGH | 9.60 | 77.80 | W191900 | 375231 | 813337 | B | 13760 | 09/01/88 | |
| | | | | | | | 5.00 | 0.70 | 1.10 | | 5.0 | 2912 | |
| STRIP | 4.30 | 33.20 | 54.50 | RALEIGH | 12.30 | 74.70 | W191899 | 375231 | 813338 | B | 13230 | 09/01/88 | |
| | | | | | | | 5.10 | 0.70 | 1.00 | | 9.0 | 2912 | |
| STRIP | 6.60 | 32.40 | 61.10 | RALEIGH | 6.50 | 78.10 | W191897 | 375231 | 813339 | B | 13650 | 09/01/88 | |
| | | | | | | | 4.90 | 0.60 | 1.10 | | 1.0 | 2912 | |
| UNDERGROUND | 1.90 | 18.70 | 73.70 | FAYETTE | 7.60 | 82.80 | W206544 | 375234 | 804644 | B | 14280 | 09/01/88 | |
| | | | | | | | 4.60 | 1.30 | 1.30 | | 9.0 | 2624 | |
| DONNA MINE | 3.10 | 37.70 | 53.00 | LOGAN | 9.30 | 76.70 | W187025 | 375237 | 815540 | B | 13610 | 09/01/88 | |
| | | | | | | | 5.00 | 0.60 | 1.40 | | 7.0 | 2912 | |
| BETTY MINE | 2.50 | 34.90 | 56.10 | LOGAN | 9.00 | 77.50 | W187024 | 375253 | 814930 | B | 13690 | 09/01/88 | |
| | | | | | | | 4.90 | 0.90 | 1.50 | | 7.5 | 2912 | |
| STRIP | 3.40 | 32.10 | 51.90 | BOONE | 16.00 | 71.30 | W195040 | 375257 | 814216 | B | 12610 | 09/01/88 | |
| | | | | | | | 4.60 | 0.70 | 1.20 | | 4.0 | 2804 | |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Code Number | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------------------|----------|-----------|----------|------------|-------|--------|----------|--------|-------------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| UNDERGROUND | 2.30 | 31.80 | 62.70 | RALEIGH | 5.50 | 82.30 | 5.10 | 0.70 | W195047 | 375258 | 813035 | B | 14680 | 09/01/88 |
| | | | | | | | | | | 5.00 | 1.40 | | 9.0 | 2804 |
| UNDERGROUND | 1.60 | 18.90 | 63.60 | FAYETTE | 17.50 | 72.20 | 4.20 | 0.90 | W206566 | 375314 | 805534 | B | 12630 | 09/01/88 |
| | | | | | | | | | | 3.80 | 1.40 | | 8.0 | 2912 |
| BUFFALO MINING CO, MARK MINE | 4.20 | 41.00 | 51.20 | WAYNE | 7.80 | 76.30 | 5.00 | 2.30 | W187011 | 375314 | 822316 | B | 13680 | 09/01/88 |
| | | | | | | | | | | 7.10 | 1.50 | | 5.0 | 2129 |
| STRIP | 4.60 | 28.60 | 63.00 | RALEIGH | 8.40 | 79.60 | 5.00 | 0.80 | W206549 | 375332 | 811836 | B | 13900 | 09/01/88 |
| | | | | | | | | | | 4.60 | 1.60 | | 8.5 | 2804 |
| STRIP | 2.60 | 25.10 | 70.00 | FAYETTE | 4.90 | 84.20 | 4.80 | 0.60 | W206542 | 375336 | 811402 | B | 14870 | 09/01/88 |
| | | | | | | | | | | 3.80 | 1.70 | | 9.0 | 2804 |
| UNDERGROUND | 2.30 | 34.20 | 59.40 | RALEIGH | 6.40 | 81.20 | 5.10 | 0.50 | W189339 | 375350 | 813003 | B | 14410 | 09/01/88 |
| | | | | | | | | | | 5.30 | 1.50 | | 6.5 | 2912 |
| UNDERGROUND | 1.70 | 26.00 | 49.00 | BOONE | 25.00 | 63.20 | 4.30 | 0.60 | W191114 | 375356 | 813340 | B | 11190 | 09/01/88 |
| | | | | | | | | | | 5.90 | 1.00 | | 3.5 | 2912 |
| UNDERGROUND | 4.30 | 34.30 | 57.30 | BOONE | 8.40 | 77.40 | 5.10 | 0.80 | W191880 | 375404 | 814354 | B | 13760 | 09/01/88 |
| | | | | | | | | | | 7.20 | 1.10 | | 7.0 | 2912 |
| UNDERGROUND | 2.90 | 35.60 | 53.00 | LOGAN | 11.40 | 73.50 | 4.70 | 1.60 | W195063 | 375405 | 815155 | B | 13210 | 09/01/88 |
| | | | | | | | | | | 7.50 | 1.30 | | 7.0 | 2804 |
| JEAN MINE | 3.10 | 32.40 | 48.90 | LOGAN | 18.70 | 68.30 | 4.50 | 1.10 | W187023 | 375415 | 815016 | B | 12140 | 09/01/88 |
| | | | | | | | | | | 6.20 | 1.20 | | 6.5 | 2912 |
| STRIP | 2.10 | 21.20 | 73.00 | FAYETTE | 5.80 | 83.20 | 4.90 | 2.20 | W206545 | 375421 | 811357 | B | 14630 | 09/01/88 |
| | | | | | | | | | | 2.20 | 1.70 | | 9.0 | 2147 |
| UNDERGROUND | 3.60 | 37.00 | 57.80 | LOGAN | 5.20 | 79.90 | 5.20 | 1.10 | W191887 | 375431 | 814540 | B | 14270 | 09/01/88 |
| | | | | | | | | | | 7.50 | 1.10 | | 7.0 | 2786 |
| STRIP | 4.50 | 22.90 | 74.70 | FAYETTE | 2.40 | 87.20 | 5.00 | 0.60 | W206546 | 375433 | 810759 | B | 15220 | 09/01/88 |
| | | | | | | | | | | 2.90 | 1.90 | | 9.0 | 2516 |
| UNDERGROUND | 2.40 | 32.50 | 53.90 | LOGAN | 13.60 | 73.50 | 4.70 | 0.90 | W195062 | 375444 | 814851 | B | 12990 | 09/01/88 |
| | | | | | | | | | | 5.90 | 1.40 | | 7.0 | 2804 |
| STRIP | 5.10 | 36.80 | 60.70 | LOGAN | 2.50 | 82.80 | 5.20 | 0.70 | W195055 | 375450 | 815805 | B | 14700 | 09/01/88 |
| | | | | | | | | | | 7.20 | 1.60 | | 5.0 | 2543 |
| STRIP | 3.00 | 19.90 | 74.30 | GREENBRIER | 5.80 | 84.20 | 4.70 | 0.90 | W206540 | 375456 | 804630 | B | 14630 | 09/01/88 |
| | | | | | | | | | | 3.10 | 1.30 | | 9.0 | 2804 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Code Number | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-------------------|----------|-----------|----------|------------|--------|----------|-------------|----------|-----------|-----------|------------|-----------|
| | | | Ash | | | | Sulfur | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| UNDERGROUND | 1.50 | 33.10 | 64.60 | RALEIGH | 84.90 | 5.30 | W191117 | 375503 | 813321 | B | 15040 | 09/01/88 |
| | | | 2.30 | | | 0.70 | | 5.40 | 1.40 | | 9.0 | 2912 |
| UNDERGROUND | 3.20 | 38.20 | 54.50 | LOGAN | 78.90 | 5.20 | W195061 | 375507 | 814751 | B | 13970 | 09/01/88 |
| | | | 7.30 | | | 0.70 | | 6.50 | 1.40 | | 7.5 | 2804 |
| BUFFALO NO 4 MINE | 2.40 | 31.10 | 39.70 | LOGAN | 63.20 | 4.20 | W187022 | 375512 | 815120 | B | 11190 | 09/01/88 |
| | | | 29.20 | | | 0.80 | | 1.50 | 1.10 | | 5.5 | 2912 |
| UNDERGROUND | 3.40 | 33.60 | 54.60 | BOONE | 75.20 | 4.90 | W191881 | 375556 | 813400 | B | 13340 | 09/01/88 |
| | | | 11.80 | | | 0.90 | | 6.20 | 1.00 | | 7.5 | 2804 |
| UNDERGROUND | 3.50 | 34.90 | 55.00 | BOONE | 76.50 | 5.10 | W191882 | 375556 | 814400 | B | 13600 | 09/01/88 |
| | | | 10.10 | | | 0.90 | | 6.20 | 1.20 | | 7.0 | 2912 |
| STRIP | 3.90 | 19.90 | 74.30 | GREENBRIER | 84.00 | 4.80 | W206539 | 375600 | 804257 | B | 14650 | 09/01/88 |
| | | | 5.80 | | | 0.80 | | 3.10 | 1.50 | | 9.0 | 2723 |
| UNDERGROUND | 2.20 | 35.50 | 60.60 | BOONE | 82.60 | 5.40 | W191115 | 375612 | 813615 | B | 14620 | 09/01/88 |
| | | | 3.90 | | | 0.60 | | 6.20 | 1.30 | | 8.5 | 2624 |
| UNDERGROUND | 3.90 | 36.50 | 58.20 | LOGAN | 79.10 | 5.30 | W195034 | 375634 | 815626 | B | 14220 | 09/01/88 |
| | | | 5.30 | | | 1.40 | | 7.30 | 1.60 | | 6.0 | 2246 |
| UNDERGROUND | 2.80 | 30.60 | 51.50 | BOONE | 68.80 | 4.50 | W191884 | 375636 | 814350 | B | 12190 | 09/01/88 |
| | | | 17.90 | | | 0.70 | | 7.10 | 1.00 | | 6.0 | 2912 |
| 2-C MIFFLIN MINE | 2.80 | 34.60 | 54.40 | BOONE | 75.50 | 4.60 | W187021 | 375703 | 815015 | B | 13260 | 09/01/88 |
| | | | 11.00 | | | 0.90 | | 6.60 | 1.40 | | 6.0 | 2354 |
| PRATT MINING CO | 2.20 | 31.40 | 63.10 | FAYETTE | 83.50 | 5.10 | D170192 | 375728 | 811915 | B | 14680 | 09/01/88 |
| | | | 5.50 | | | 0.80 | | 3.60 | 1.50 | | 5.5 | 2912 |
| PRATT MINING CO | 2.40 | 30.20 | 63.20 | FAYETTE | 81.60 | 5.00 | D170191 | 375729 | 811917 | B | 14480 | 09/01/88 |
| | | | 6.60 | | | 0.70 | | 4.60 | 1.50 | | 6.5 | 2912 |
| UNDERGROUND | 2.60 | 23.80 | 67.10 | GREENBRIER | 80.80 | 4.70 | W210130 | 375810 | 803613 | B | 14100 | 09/01/88 |
| | | | 9.10 | | | 1.40 | | 2.70 | 1.30 | | 9.0 | 2804 |
| UNDERGROUND | 1.80 | 38.00 | 55.10 | BOONE | 79.30 | 5.60 | W191885 | 375815 | 813914 | B | 14260 | 09/01/88 |
| | | | 6.90 | | | 0.80 | | 6.30 | 1.10 | | 9.0 | 2777 |
| STRIP | 5.10 | 23.00 | 71.20 | GREENBRIER | 83.20 | 4.80 | W210190 | 375820 | 803316 | B | 14620 | 09/01/88 |
| | | | 5.80 | | | 0.60 | | 3.80 | 1.80 | | 9.0 | 2804 |
| STRIP | 2.70 | 23.40 | 70.50 | GREENBRIER | 83.50 | 4.70 | W210134 | 375829 | 803659 | B | 14630 | 09/01/88 |
| | | | 6.10 | | | 1.10 | | 3.30 | 1.30 | | 9.0 | 2507 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Code Number | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-----------------------------|----------|-----------|----------|---------|-------|--------|----------|-------------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| STRIP | 4.80 | 27.50 | 70.30 | FAYETTE | 2.20 | 85.70 | 5.10 | W206547 | 0.60 | 375834 | 810406 | B | 15140 | 09/01/88 |
| | | | | | | | | | | 4.60 | 1.80 | | 9.0 | 2660 |
| STRIP | 2.70 | 31.00 | 62.70 | FAYETTE | 6.30 | 81.70 | 5.10 | W210338 | 0.80 | 375911 | 811917 | B | 14620 | 09/01/88 |
| | | | | | | | | | | 4.40 | 1.70 | | 8.5 | 2804 |
| UNDERGROUND | 3.30 | 25.00 | 70.10 | FAYETTE | 4.90 | 83.90 | 4.70 | W210124 | 0.70 | 375931 | 805436 | B | 14750 | 09/01/88 |
| | | | | | | | | | | 4.10 | 1.70 | | 9.0 | 2804 |
| C D NO 36 MINE | 1.80 | 33.30 | 61.60 | KANAWHA | 5.10 | 83.20 | 5.10 | D170188 | 0.50 | 375946 | 812345 | B | 14740 | 09/01/88 |
| | | | | | | | | | | 4.60 | 1.50 | | 7.0 | 2912 |
| UNDERGROUND | 3.70 | 37.30 | 54.90 | BOONE | 7.80 | 77.60 | 5.20 | W195052 | 0.70 | 375957 | 815516 | B | 13880 | 09/01/88 |
| | | | | | | | | | | 7.10 | 1.60 | | 5.5 | 2804 |
| STRIP | 4.30 | 36.20 | 54.00 | BOONE | 9.80 | 74.00 | 5.00 | W195017 | 2.10 | 375958 | 815519 | B | 13390 | 09/01/88 |
| | | | | | | | | | | 7.60 | 1.50 | | 4.0 | 2165 |
| STRIP | 2.90 | 34.40 | 44.10 | BOONE | 21.50 | 65.40 | 4.60 | W195016 | 0.50 | 375958 | 815520 | B | 11630 | 09/01/88 |
| | | | | | | | | | | 6.90 | 1.10 | | 1.0 | 2804 |
| STRIP | 3.70 | 37.20 | 58.40 | BOONE | 4.40 | 79.50 | 5.30 | W195013 | 1.70 | 375958 | 815529 | B | 14340 | 09/01/88 |
| | | | | | | | | | | 7.40 | 1.70 | | 5.0 | 2057 |
| STRIP | 4.10 | 36.30 | 56.20 | BOONE | 7.50 | 77.50 | 5.10 | W195014 | 0.90 | 375959 | 815521 | B | 13940 | 09/01/88 |
| | | | | | | | | | | 7.50 | 1.50 | | 5.5 | 2561 |
| | 1.60 | 29.90 | 68.10 | FAYETTE | 2.00 | 85.90 | 5.00 | D168088 | 0.50 | 380000 | 810730 | B | 15190 | 09/01/88 |
| | | | | | | | | | | 5.10 | 1.50 | | 0.0 | 0 |
| | 2.10 | 24.90 | 72.10 | FAYETTE | 3.00 | 85.00 | 4.70 | D161644 | 0.60 | 380010 | 810235 | B | 14750 | 09/01/88 |
| | | | | | | | | | | 5.20 | 1.50 | | 0.0 | 0 |
| OMAR MINING, CHESTERFIELD 3 | 3.50 | 35.60 | 53.30 | BOONE | 11.10 | 75.80 | 4.80 | W187015 | 0.60 | 380025 | 814439 | B | 13340 | 09/01/88 |
| | | | | | | | | | | 6.40 | 1.30 | | 5.5 | 2912 |
| STRIP | 4.20 | 31.80 | 63.20 | FAYETTE | 5.00 | 82.20 | 5.50 | W206541 | 0.70 | 380026 | 811025 | B | 14710 | 09/01/88 |
| | | | | | | | | | | 4.90 | 1.70 | | 8.5 | 2804 |
| STRIP | 1.60 | 32.00 | 61.00 | FAYETTE | 7.00 | 81.20 | 5.10 | W210336 | 0.90 | 380026 | 811845 | B | 14490 | 09/01/88 |
| | | | | | | | | | | 4.30 | 1.50 | | 8.0 | 2804 |
| UNDERGROUND | 2.50 | 32.60 | 58.10 | KANAWHA | 9.30 | 78.10 | 5.00 | W210332 | 0.90 | 380035 | 812309 | B | 13930 | 09/01/88 |
| | | | | | | | | | | 5.30 | 1.40 | | 8.0 | 2804 |
| UNDERGROUND | 2.20 | 26.60 | 69.00 | FAYETTE | 4.40 | 84.40 | 5.00 | W210182 | 0.80 | 380056 | 805335 | B | 14840 | 09/01/88 |
| | | | | | | | | | | 3.80 | 1.60 | | 9.0 | 2804 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Code Number | | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-----------------------------|----------|-----------|----------|------------|--------|-------------|--------|----------|-----------|-----------|------------|-----------|
| | | | | Ash | | Hydrogen | Sulfur | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| STRIP | 3.70 | 26.00 | 66.10 | GREENBRIER | 79.50 | W210188 | 1.30 | 380100 | 803351 | B | 14330 | 09/01/88 |
| | | | | | | 4.90 | | 4.70 | 1.70 | | 9.0 | 2759 |
| STRIP | 6.30 | 25.50 | 67.20 | GREENBRIER | 81.00 | W210131 | 1.30 | 380107 | 803642 | B | 14390 | 09/01/88 |
| | | | | | | 4.90 | | 3.90 | 1.60 | | 9.0 | 2660 |
| DAUGHERTY MINING CO, MINE 1 | 4.20 | 36.80 | 59.90 | BOONE | 82.30 | W187037 | 0.70 | 380112 | 814533 | B | 14670 | 09/01/88 |
| | | | | | | 5.30 | | 6.90 | 1.50 | | 7.5 | 2669 |
| STRIP | 5.90 | 26.40 | 69.20 | FAYETTE | 84.20 | W205543 | 0.60 | 380117 | 805736 | B | 14790 | 09/01/88 |
| | | | | | | 5.30 | | 3.80 | 1.70 | | 9.0 | 2804 |
| UNDERGROUND | 1.10 | 36.10 | 51.60 | KANAWHA | 74.40 | W190605 | 0.90 | 380129 | 812109 | B | 13200 | 09/01/88 |
| | | | | | | 4.90 | | 6.10 | 1.40 | | 7.5 | 2912 |
| OMAR MINING, CHESTERFIELD 5 | 2.50 | 37.20 | 50.80 | BOONE | 73.90 | W187016 | 0.90 | 380132 | 814300 | B | 13240 | 09/01/88 |
| | | | | | | 4.80 | | 7.00 | 1.40 | | 5.5 | 2912 |
| UNDERGROUND | 3.90 | 35.30 | 59.10 | BOONE | 79.50 | W191894 | 0.80 | 380148 | 814200 | B | 14150 | 09/01/88 |
| | | | | | | 5.50 | | 7.20 | 1.40 | | 6.5 | 2912 |
| STRIP | 4.20 | 34.80 | 57.80 | LOGAN | 77.20 | W195010 | 0.70 | 380151 | 815518 | B | 13740 | 09/01/88 |
| | | | | | | 4.90 | | 8.30 | 1.50 | | 4.5 | 2804 |
| UNDERGROUND | 3.10 | 24.90 | 68.30 | GREENBRIER | 81.50 | W210192 | 1.20 | 380153 | 803824 | B | 14400 | 09/01/88 |
| | | | | | | 4.70 | | 4.50 | 1.30 | | 9.0 | 2804 |
| EXPANSION MINING CO, MINE 1 | 3.10 | 34.30 | 46.50 | BOONE | 67.60 | W187018 | 0.60 | 380159 | 814134 | B | 11910 | 09/01/88 |
| | | | | | | 4.40 | | 7.00 | 1.20 | | 5.0 | 2912 |
| STRIP | 2.90 | 27.00 | 67.30 | GREENBRIER | 81.80 | W210135 | 1.20 | 380203 | 803517 | B | 14630 | 09/01/88 |
| | | | | | | 4.70 | | 4.80 | 1.80 | | 9.0 | 2750 |
| STRIP | 1.20 | 52.10 | 38.80 | BOONE | 75.80 | W189336 | 1.00 | 380205 | 815438 | B | 14270 | 09/01/88 |
| | | | | | | 6.40 | | 6.20 | 1.50 | | 0.5 | 2129 |
| STRIP | 2.50 | 25.80 | 65.10 | GREENBRIER | 79.80 | W210132 | 1.20 | 380206 | 803525 | B | 14020 | 09/01/88 |
| | | | | | | 4.80 | | 3.60 | 1.50 | | 9.0 | 2759 |
| BETHLEHEM MINE | 1.70 | 35.40 | 53.70 | KANAWHA | 76.20 | D170190 | 0.70 | 380211 | 812528 | B | 13610 | 09/01/88 |
| | | | | | | 5.10 | | 5.60 | 1.50 | | 7.0 | 2912 |
| STRIP | 3.90 | 25.90 | 70.90 | GREENBRIER | 84.60 | W210122 | 1.10 | 380217 | 804541 | B | 14960 | 09/01/88 |
| | | | | | | 5.10 | | 4.20 | 1.80 | | 9.0 | 2354 |
| UNDERGROUND | 2.70 | 31.60 | 59.40 | BOONE | 77.70 | W194999 | 0.90 | 380223 | 813323 | B | 13860 | 09/01/88 |
| | | | | | | 4.90 | | 6.00 | 1.50 | | 0.0 | 2804 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-------------|----------|-----------|----------|--------|------------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| UNDERGROUND | 2.70 | 35.50 | 54.70 | 9.80 | KANAWHA | 76.60 | 4.90 | 1.50 | 380250 | 812633 | B | 13620 | 09/01/88 |
| | | | | | | | | | 5.90 | 1.30 | | 6.5 | 2894 |
| STRIP | 2.50 | 32.40 | 53.50 | 14.10 | FAYETTE | 73.20 | 4.70 | 0.60 | 380305 | 812054 | B | 13060 | 09/01/88 |
| | | | | | | | | | 6.10 | 1.30 | | 5.0 | 2804 |
| STRIP | 5.50 | 34.60 | 57.30 | 8.10 | FAYETTE | 75.80 | 4.90 | 0.70 | 380310 | 812053 | B | 13380 | 09/01/88 |
| | | | | | | | | | 9.00 | 1.50 | | 1.0 | 2777 |
| STRIP | 3.20 | 34.70 | 53.60 | 11.70 | BOONE | 74.70 | 4.80 | 0.60 | 380346 | 813527 | B | 13160 | 09/01/88 |
| | | | | | | | | | 6.90 | 1.30 | | 2.0 | 2912 |
| UNDERGROUND | 2.50 | 25.70 | 68.00 | 6.30 | GREENBRIER | 82.60 | 4.90 | 1.00 | 380358 | 803810 | B | 14700 | 09/01/88 |
| | | | | | | | | | 3.30 | 1.90 | | 9.0 | 2516 |
| STRIP | 3.00 | 24.60 | 69.70 | 5.70 | GREENBRIER | 83.20 | 5.00 | 0.60 | 380400 | 804630 | B | 14630 | 09/01/88 |
| | | | | | | | | | 4.00 | 1.50 | | 9.0 | 2804 |
| UNDERGROUND | 2.40 | 25.80 | 65.40 | 8.80 | FAYETTE | 79.70 | 5.00 | 0.80 | 380417 | 805521 | B | 13890 | 09/01/88 |
| | | | | | | | | | 4.10 | 1.60 | | 9.0 | 2804 |
| | 5.20 | 37.00 | 47.60 | 15.40 | WAYNE | 67.50 | 4.70 | 2.00 | 380419 | 823144 | B | 12110 | 09/01/88 |
| | | | | | | | | | 8.90 | 1.50 | | 0.0 | 2759 |
| STRIP | 2.70 | 26.60 | 66.20 | 7.20 | GREENBRIER | 81.20 | 4.90 | 1.30 | 380437 | 803118 | B | 14340 | 09/01/88 |
| | | | | | | | | | 3.60 | 1.80 | | 9.0 | 2804 |
| | 1.90 | 26.00 | 71.10 | 2.90 | FAYETTE | 84.30 | 4.70 | 0.50 | 380445 | 810550 | B | 14620 | 09/01/88 |
| | | | | | | | | | 6.10 | 1.50 | | 0.0 | 0 |
| UNDERGROUND | 5.10 | 26.00 | 69.80 | 4.20 | GREENBRIER | 83.50 | 5.00 | 0.90 | 380456 | 803259 | B | 14760 | 09/01/88 |
| | | | | | | | | | 4.50 | 1.90 | | 9.0 | 2354 |
| UNDERGROUND | 2.50 | 36.90 | 56.70 | 6.40 | BOONE | 77.60 | 5.40 | 3.30 | 380504 | 814401 | B | 14110 | 09/01/88 |
| | | | | | | | | | 6.20 | 1.10 | | 6.5 | 2084 |
| STRIP | 4.30 | 34.90 | 52.00 | 13.10 | BOONE | 71.80 | 5.00 | 1.60 | 380528 | 813544 | B | 12920 | 09/01/88 |
| | | | | | | | | | 7.00 | 1.50 | | 6.0 | 2642 |
| UNDERGROUND | 3.70 | 34.40 | 55.00 | 10.60 | LOGAN | 75.50 | 4.80 | 0.60 | 380540 | 813445 | B | 13380 | 09/01/88 |
| | | | | | | | | | 7.00 | 1.50 | | 5.5 | 2804 |
| | 6.80 | 35.70 | 48.80 | 15.50 | WAYNE | 66.90 | 4.70 | 0.90 | 380545 | 823047 | B | 11880 | 09/01/88 |
| | | | | | | | | | 10.60 | 1.40 | | 0.0 | 2804 |
| DRIFT | 3.20 | 36.80 | 60.40 | 2.80 | KANAWHA | 82.90 | 5.30 | 0.80 | 380639 | 812133 | B | 14730 | 09/01/88 |
| | | | | | | | | | 6.70 | 1.50 | | 8.0 | 2660 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|--------------------|----------|-----------|----------|------------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| UNDERGROUND | 2.80 | 27.80 | 58.30 | FAYETTE | 3.90 | 84.40 | 5.30 | 0.60 | 380646 | 805701 | B | 14830 | 09/01/88 |
| | | | | | | | | | 4.10 | 1.70 | | 9.0 | 2651 |
| STRIP | 2.10 | 39.40 | 55.70 | KANAWHA | 4.90 | 80.90 | 5.40 | 0.80 | 380708 | 812816 | B | 14410 | 09/01/88 |
| | | | | | | | | | 6.50 | 1.50 | | 7.5 | 2804 |
| STRIP | 4.00 | 32.20 | 54.10 | BOONE | 13.70 | 71.80 | 4.50 | 1.10 | 380727 | 815234 | B | 12750 | 09/01/88 |
| | | | | | | | | | 7.50 | 1.40 | | 2.5 | 2804 |
| UNDERGROUND | 3.20 | 37.50 | 58.50 | KANAWHA | 4.00 | 82.10 | 5.30 | 0.60 | 380729 | 812358 | B | 14630 | 09/01/88 |
| | | | | | | | | | 6.60 | 1.40 | | 7.0 | 2912 |
| UNDERGROUND | 3.40 | 36.20 | 57.40 | KANAWHA | 6.40 | 79.00 | 5.20 | 0.90 | 380730 | 813048 | B | 14010 | 09/01/88 |
| | | | | | | | | | 7.10 | 1.40 | | 6.0 | 2804 |
| STRIP | 3.70 | 25.80 | 61.70 | GREENBRIER | 12.50 | 75.20 | 4.60 | 1.10 | 380734 | 803422 | B | 13380 | 09/01/88 |
| | | | | | | | | | 5.00 | 1.60 | | 9.0 | 2408 |
| | 15.10 | 35.20 | 58.80 | FAYETTE | 6.00 | 71.60 | 3.80 | 0.60 | 380735 | 811223 | B | 11710 | 09/01/88 |
| | | | | | | | | | 16.70 | 1.30 | | 0.0 | 2462 |
| UNDERGROUND | 3.10 | 34.70 | 54.80 | KANAWHA | 10.50 | 74.00 | 5.10 | 1.10 | 380740 | 813020 | B | 13390 | 09/01/88 |
| | | | | | | | | | 7.90 | 1.40 | | 6.5 | 2804 |
| STRIP | 3.60 | 35.10 | 56.00 | BOONE | 8.90 | 74.40 | 5.10 | 1.70 | 380740 | 815327 | B | 13460 | 09/01/88 |
| | | | | | | | | | 8.30 | 1.60 | | 4.0 | 2201 |
| STOCKTON NO 2 MINE | 1.90 | 34.70 | 47.30 | KANAWHA | 18.00 | 67.50 | 4.50 | 3.30 | 380742 | 812218 | B | 12220 | 09/01/88 |
| | | | | | | | | | 5.50 | 1.20 | | 2.5 | 2390 |
| DRIFT | 2.40 | 37.60 | 54.90 | KANAWHA | 7.50 | 77.60 | 5.20 | 0.60 | 380744 | 812447 | B | 14070 | 09/01/88 |
| | | | | | | | | | 7.90 | 1.20 | | 6.0 | 2804 |
| DRIFT | 1.70 | 28.60 | 41.90 | KANAWHA | 29.50 | 57.90 | 4.10 | 0.50 | 380808 | 812300 | B | 10440 | 09/01/88 |
| | | | | | | | | | 6.90 | 1.10 | | 2.0 | 2804 |
| UNDERGROUND | 2.10 | 26.00 | 62.40 | GREENBRIER | 11.60 | 76.30 | 4.70 | 1.30 | 380820 | 803549 | B | 13500 | 09/01/88 |
| | | | | | | | | | 4.60 | 1.50 | | 8.5 | 2804 |
| UNDERGROUND | 3.10 | 31.00 | 53.80 | BOONE | 15.20 | 70.10 | 4.80 | 2.90 | 380825 | 813714 | B | 12630 | 09/01/88 |
| | | | | | | | | | 5.90 | 1.10 | | 6.0 | 2192 |
| STRIP | 3.80 | 37.90 | 58.50 | BOONE | 3.60 | 82.20 | 5.30 | 0.70 | 380826 | 814354 | B | 14480 | 09/01/88 |
| | | | | | | | | | 6.70 | 1.50 | | 5.0 | 2851 |
| STRIP | 3.70 | 39.80 | 55.30 | BOONE | 4.90 | 79.70 | 5.50 | 0.90 | 380826 | 814355 | B | 14280 | 09/01/88 |
| | | | | | | | | | 7.50 | 1.50 | | 2.5 | 2444 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carb.% | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-----------------|----------|-----------|----------|----------|-------|--------|----------|--------|----------|-----------|------|---------|----------|
| STRIP | 4.40 | 37.10 | 55.20 | BOONE | 7.70 | 75.80 | 4.90 | 2.70 | 380836 | 814311 | B | 13730 | 09/01/88 |
| | | | | | | | | | 7.60 | 1.30 | | 4.5 | 2282 |
| STRIP | 7.90 | 28.60 | 68.30 | NICHOLAS | 3.10 | 84.80 | 5.00 | 0.70 | 380839 | 803821 | B | 15050 | 09/01/88 |
| | | | | | | | | | 4.80 | 1.60 | | 8.5 | 2804 |
| UNDERGROUND | 1.80 | 34.30 | 57.80 | KANAWHA | 7.90 | 77.60 | 5.3 | 0.80 | 380840 | 813705 | B | 13760 | 09/01/88 |
| | | | | | | | | | 7.00 | 1.40 | | 4.5 | 2183 |
| MORTON MINE | 2.50 | 35.90 | 55.00 | KANAWHA | 9.10 | 77.30 | 5.00 | 0.80 | 380915 | 813412 | B | 13740 | 09/01/88 |
| | | | | | | | | | 6.40 | 1.40 | | 6.5 | 2534 |
| UNDERGROUND | 3.40 | 34.60 | 55.00 | KANAWHA | 10.40 | 76.40 | 4.90 | 0.60 | 380918 | 812219 | B | 13590 | 09/01/88 |
| | | | | | | | | | 6.40 | 1.30 | | 6.0 | 2912 |
| UNDERGROUND | 3.50 | 27.50 | 67.70 | NICHOLAS | 4.80 | 83.70 | 5.10 | 0.60 | 380928 | 804218 | B | 14710 | 09/01/88 |
| | | | | | | | | | 4.10 | 1.70 | | 9.0 | 2804 |
| UNDERGROUND | 2.40 | 31.90 | 62.20 | FAYETTE | 5.90 | 80.40 | 5.10 | 0.70 | 380928 | 811425 | B | 14260 | 09/01/88 |
| | | | | | | | | | 6.30 | 1.60 | | 8.5 | 2912 |
| UNDERGROUND | 2.80 | 37.20 | 58.80 | KANAWHA | 4.00 | 81.80 | 5.30 | 0.70 | 380941 | 812251 | B | 14630 | 09/01/88 |
| | | | | | | | | | 6.60 | 1.60 | | 7.5 | 2912 |
| NO 1 MINE | 1.90 | 33.40 | 51.00 | KANAWHA | 15.60 | 71.60 | 4.70 | 0.60 | 380944 | 812249 | B | 12640 | 09/01/88 |
| | | | | | | | | | 6.30 | 1.20 | | 3.5 | 2912 |
| | 2.30 | 36.60 | 58.30 | FAYETTE | 5.10 | 80.50 | 5.20 | 0.80 | 380953 | 811610 | B | 14260 | 09/01/88 |
| | | | | | | | | | 6.80 | 1.60 | | 7.0 | 2912 |
| NO 5 BLOCK MINE | 4.00 | 33.10 | 56.00 | FAYETTE | 10.90 | 75.30 | 4.70 | 1.00 | 381012 | 811628 | B | 13390 | 09/01/88 |
| | | | | | | | | | 6.60 | 1.50 | | 4.5 | 2804 |
| UNDERGROUND | 3.90 | 35.50 | 52.80 | KANAWHA | 11.70 | 74.10 | 5.10 | 0.80 | 381015 | 813507 | B | 13200 | 09/01/88 |
| | | | | | | | | | 6.70 | 1.60 | | 5.5 | 2804 |
| UNDERGROUND | 2.00 | 35.10 | 55.70 | FAYETTE | 9.20 | 77.60 | 5.20 | 1.70 | 381021 | 811738 | B | 13890 | 09/01/88 |
| | | | | | | | | | 4.80 | 1.50 | | 8.0 | 2480 |
| UNDERGROUND | 4.00 | 27.60 | 69.20 | NICHOLAS | 3.20 | 82.50 | 5.20 | 0.50 | 381022 | 803909 | B | 14950 | 09/01/88 |
| | | | | | | | | | 6.90 | 1.70 | | 9.0 | 2804 |
| UNDERGROUND | 3.00 | 36.10 | 60.40 | FAYETTE | 3.50 | 83.30 | 5.40 | 0.70 | 381040 | 811216 | B | 14870 | 09/01/88 |
| | | | | | | | | | 5.50 | 1.60 | | 8.5 | 2768 |
| STRIP | 2.60 | 33.60 | 62.00 | FAYETTE | 4.40 | 81.90 | 5.60 | 0.90 | 381054 | 805858 | B | 14750 | 09/01/88 |
| | | | | | | | | | 5.20 | 2.00 | | 9.0 | 2804 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank | Htg Val Free Swell | Last Chg Hemi Temp |
|-------------------------|----------|-----------|----------|----------|--------|----------|--------|--------------------|-----------------------|------|-----------------------|-----------------------|
| CANNELTON CO MINE | 1.70 | 36.40 | 62.10 | FAYETTE | 85.30 | 5.40 | 0.60 | 381055 5.70 | 811332 1.50 | B | 15260 9.0 | 09/01/88 2624 |
| SEMET-SOLWAY STRIP MINE | 3.20 | 34.10 | 57.90 | FAYETTE | 77.80 | 4.80 | 0.60 | 381056 7.40 | 811639 1.40 | B | 13820 1.5 | 09/01/88 2804 |
| STRIP | 4.00 | 36.10 | 53.10 | KANAWHA | 73.00 | 4.80 | 1.80 | 381108 8.20 | 813141 1.40 | B | 13170 6.5 | 09/01/88 2804 |
| UNDERGROUND | 3.10 | 29.20 | 66.30 | NICHOLAS | 83.10 | 5.30 | 0.90 | 381134 4.40 | 804003 1.80 | B | 14760 9.0 | 09/01/88 2606 |
| UNDERGROUND | 3.30 | 28.50 | 64.40 | NICHOLAS | 80.00 | 5.00 | 1.60 | 381135 4.60 | 804142 1.70 | B | 14260 9.0 | 09/01/88 2804 |
| UNDERGROUND | 2.10 | 36.90 | 53.40 | KANAWHA | 76.70 | 5.10 | 0.80 | 381139 6.40 | 812056 1.30 | B | 13620 7.0 | 09/01/88 2912 |
| UNDERGROUND | 2.70 | 35.60 | 53.20 | KANAWHA | 76.20 | 4.80 | 0.50 | 381152 5.90 | 813531 1.40 | B | 13450 4.0 | 09/01/88 2912 |
| UNDERGROUND | 2.80 | 35.20 | 63.80 | FAYETTE | 85.00 | 5.30 | 0.70 | 381203 6.30 | 811444 1.70 | B | 15060 8.0 | 09/01/88 2246 |
| UNDERGROUND | 3.10 | 34.60 | 51.90 | KANAWHA | 71.60 | 4.70 | 2.70 | 381211 6.30 | 813502 1.20 | B | 12830 5.5 | 09/01/88 2453 |
| UNDERGROUND | 1.80 | 33.60 | 50.30 | FAYETTE | 71.10 | 4.80 | 1.00 | 381231 5.60 | 311146 1.40 | B | 12700 7.0 | 09/01/88 2912 |
| UNDERGROUND | 2.60 | 30.10 | 66.90 | NICHOLAS | 84.00 | 5.10 | 0.80 | 381236 5.40 | 804041 1.70 | B | 14910 9.0 | 09/01/88 2552 |
| UNDERGROUND | 2.30 | 34.40 | 56.20 | FAYETTE | 77.90 | 5.00 | 0.70 | 381242 5.50 | 811640 1.50 | B | 13820 6.0 | 09/01/88 2912 |
| UNDERGROUND | 2.30 | 36.30 | 61.70 | FAYETTE | 83.80 | 5.40 | 0.70 | 381244 6.40 | 811639 1.70 | B | 14930 8.0 | 09/01/88 2534 |
| UNDERGROUND | 2.30 | 35.10 | 54.80 | KANAWHA | 76.50 | 5.00 | 0.70 | 381255 6.20 | 812040 1.50 | B | 13580 7.5 | 09/01/88 2480 |
| 4.70 | 37.30 | 50.30 | 12.40 | LINCOLN | 71.10 | 4.80 | 0.80 | 381310 9.50 | 821207 1.40 | B | 12630 3.0 | 09/01/88 2912 |
| CANNELTON CO MINE | 1.00 | 35.40 | 58.80 | FAYETTE | 80.90 | 5.10 | 0.60 | 381332 6.00 | 811055 1.60 | B | 14550 8.5 | 09/01/88 2804 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|------------------------|----------|-----------|----------|----------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | Ash | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| CANNELTON CO MINE | 1.50 | 31.00 | 49.00 | FAYETTE | 20.00 | 67.20 | 4.40 | 2.40 | 381332 | 811355 | B | 12110 |
| | | | | | | | | 4.80 | 1.20 | | 8.0 | 2759 |
| CANNELTON CO MINE | 2.50 | 31.60 | 53.30 | FAYETTE | 15.10 | 72.00 | 4.50 | 0.50 | 381337 | 811557 | B | 12700 |
| | | | | | | | | 6.60 | 1.30 | | 4.5 | 2804 |
| UNDERGROUND | 3.00 | 36.50 | 57.70 | KANAWHA | 5.80 | 80.00 | 5.20 | 1.10 | 381345 | 811952 | B | 14240 |
| | | | | | | | | 6.30 | 1.60 | | 7.5 | 2732 |
| UNDERGROUND | 3.40 | 29.00 | 66.40 | NICHOLAS | 4.60 | 83.30 | 4.90 | 0.70 | 381350 | 804145 | B | 14680 |
| | | | | | | | | 4.70 | 1.80 | | 9.0 | 2804 |
| UNDERGROUND | 3.60 | 28.90 | 67.80 | NICHOLAS | 3.30 | 84.10 | 5.00 | 0.60 | 381355 | 803805 | B | 14950 |
| | | | | | | | | 5.30 | 1.70 | | 9.0 | 2804 |
| UNDERGROUND | 1.70 | 38.10 | 57.00 | KANAWHA | 4.90 | 81.70 | 5.30 | 1.10 | 381411 | 811619 | B | 14620 |
| | | | | | | | | 5.40 | 1.60 | | 7.5 | 2669 |
| | | | | | | | | | | | | |
| UNDERGROUND | 8.20 | 33.40 | 52.20 | KANAWHA | 14.40 | 65.50 | 4.10 | 0.50 | 381411 | 812158 | B | 10900 |
| | | | | | | | | 14.50 | 1.00 | | 0.0 | 2912 |
| UNDERGROUND | 2.00 | 38.70 | 52.50 | KANAWHA | 8.80 | 77.90 | 5.20 | 0.70 | 381420 | 811854 | B | 13920 |
| | | | | | | | | 5.90 | 1.50 | | 5.5 | 2912 |
| STRIP | 3.70 | 34.60 | 58.00 | NICHOLAS | 7.40 | 78.90 | 5.10 | 0.70 | 381432 | 810809 | B | 14260 |
| | | | | | | | | 6.20 | 1.70 | | 8.0 | 2804 |
| UNDERGROUND | 2.50 | 35.90 | 56.00 | KANAWHA | 8.10 | 78.70 | 5.20 | 1.00 | 381441 | 311921 | B | 14000 |
| | | | | | | | | 5.50 | 1.50 | | 7.5 | 2453 |
| UNDERGROUND | 2.50 | 35.70 | 56.20 | FAYETTE | 8.10 | 78.20 | 5.20 | 0.80 | 381458 | 811254 | B | 13980 |
| | | | | | | | | 6.10 | 1.60 | | 8.0 | 2912 |
| UNDERGROUND | 3.40 | 36.40 | 54.50 | KANAWHA | 9.10 | 76.00 | 4.90 | 1.00 | 381538 | 812848 | B | 13520 |
| | | | | | | | | 7.40 | 1.60 | | 4.5 | 2912 |
| UNDERGROUND | 3.50 | 38.50 | 55.20 | KANAWHA | 6.30 | 79.10 | 5.20 | 1.00 | 381541 | 812822 | B | 14150 |
| | | | | | | | | 6.90 | 1.50 | | 6.0 | 2912 |
| VALLEY CAMP NO 35 MINE | 3.60 | 33.10 | 56.10 | KANAWHA | 10.80 | 76.30 | 4.70 | 0.70 | 381545 | 812826 | B | 13320 |
| | | | | | | | | 6.00 | 1.50 | | 3.0 | 2912 |
| UNDERGROUND | 3.10 | 31.30 | 64.90 | NICHOLAS | 3.80 | 83.10 | 5.10 | 0.70 | 381557 | 804407 | B | 14830 |
| | | | | | | | | 5.60 | 1.70 | | 8.5 | 2642 |
| UNDERGROUND | 2.80 | 34.00 | 53.40 | KANAWHA | 12.60 | 74.20 | 4.70 | 0.70 | 381559 | 812207 | B | 13080 |
| | | | | | | | | 6.50 | 1.30 | | 5.0 | 2912 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-----------------------------|----------|-----------|----------|----------|-------|--------|----------|--------|----------|-----------|------|---------|----------|
| UNDERGROUND | 3.80 | 37.20 | 53.00 | KANAWHA | 9.80 | 75.50 | 4.90 | 0.90 | 381611 | 812758 | B | 13420 | 09/01/88 |
| | | | | | | | | | 7.40 | 1.50 | | 5.5 | 2912 |
| SURFACE | 2.60 | 40.20 | 54.50 | KANAWHA | 5.30 | 79.70 | 5.20 | 0.70 | 381612 | 812829 | B | 14180 | 09/01/88 |
| | | | | | | | | | 7.50 | 1.60 | | 5.5 | 2912 |
| UNDERGROUND | 3.10 | 34.50 | 52.00 | KANAWHA | 13.50 | 72.80 | 4.80 | 0.70 | 381617 | 812315 | B | 12820 | 09/01/88 |
| | | | | | | | | | 6.90 | 1.30 | | 5.0 | 2912 |
| UNDERGROUND | 2.50 | 32.40 | 49.30 | KANAWHA | 18.30 | 67.10 | 4.70 | 0.80 | 381617 | 812828 | B | 11750 | 09/01/88 |
| | | | | | | | | | 8.20 | 0.90 | | 1.0 | 2723 |
| UNDERGROUND | 2.50 | 30.20 | 58.00 | NICHOLAS | 11.80 | 75.70 | 4.70 | 3.90 | 381626 | 810138 | B | 13260 | 09/01/88 |
| | | | | | | | | | 2.40 | 1.50 | | 8.0 | 2462 |
| UNDERGROUND | 2.40 | 36.30 | 52.90 | KANAWHA | 10.80 | 75.60 | 5.00 | 0.60 | 381628 | 812132 | B | 13410 | 09/01/88 |
| | | | | | | | | | 6.70 | 1.30 | | 5.5 | 2912 |
| NO 1 MINE, DOUGLAS EAGLE CC | 3.20 | 32.00 | 61.90 | NICHOLAS | 6.10 | 81.10 | 5.00 | 2.30 | 381645 | 810031 | B | 14240 | 09/01/88 |
| | | | | | | | | | 4.00 | 1.50 | | 8.5 | 2642 |
| DRIFT | 3.50 | 28.80 | 48.80 | KANAWHA | 22.40 | 65.20 | 4.20 | 0.60 | 381650 | 811652 | B | 11490 | 09/01/88 |
| | | | | | | | | | 6.50 | 1.10 | | 3.5 | 2804 |
| UNDERGROUND | 2.10 | 31.70 | 64.60 | NICHOLAS | 3.70 | 83.90 | 5.20 | 0.80 | 381705 | 803924 | B | 14830 | 09/01/88 |
| | | | | | | | | | 4.80 | 1.60 | | 8.5 | 2597 |
| UNDERGROUND | 3.10 | 31.60 | 48.50 | KANAWHA | 19.90 | 66.10 | 4.40 | 0.60 | 381728 | 812328 | B | 11710 | 09/01/88 |
| | | | | | | | | | 7.80 | 1.20 | | 3.0 | 2912 |
| DRIFT | 2.80 | 31.30 | 55.70 | NICHOLAS | 13.00 | 73.40 | 4.80 | 1.50 | 381730 | 805456 | B | 13180 | 09/01/88 |
| | | | | | | | | | 5.90 | 1.40 | | 8.5 | 2804 |
| | 6.10 | 29.50 | 52.70 | KANAWHA | 17.80 | 62.60 | 3.90 | 0.50 | 381732 | 812141 | B | 10430 | 09/01/88 |
| | | | | | | | | | 14.10 | 1.10 | | 0.0 | 2912 |
| UNDERGROUND | 4.20 | 31.40 | 59.90 | NICHOLAS | 8.70 | 77.70 | 4.70 | 1.50 | 381742 | 805057 | B | 13790 | 09/01/88 |
| | | | | | | | | | 5.80 | 1.60 | | 7.5 | 2084 |
| DRIFT | 3.20 | 35.30 | 62.50 | NICHOLAS | 2.20 | 84.10 | 5.40 | 0.60 | 381743 | 805511 | B | 15010 | 09/01/88 |
| | | | | | | | | | 6.00 | 1.70 | | 9.0 | 2507 |
| STRIP | 2.90 | 34.60 | 55.90 | NICHOLAS | 9.50 | 76.60 | 5.20 | 0.90 | 381745 | 804556 | B | 13780 | 09/01/88 |
| | | | | | | | | | 6.00 | 1.80 | | 8.5 | 2570 |
| DRIFT | 2.90 | 32.90 | 62.40 | NICHOLAS | 4.70 | 81.80 | 5.10 | 0.70 | 381751 | 804213 | B | 14520 | 09/01/88 |
| | | | | | | | | | 6.10 | 1.60 | | 9.0 | 2804 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------------------------|----------|-----------|----------|----------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| UNDERGROUND | 2.30 | 30.10 | 64.30 | NICHOLAS | 5.60 | 81.70 | 5.10 | 1.00 | 381804 | 804239 | B | 14460 | 09/01/88 |
| | | | | | | | | | 5.00 | 1.60 | | 8.5 | 2498 |
| STRIP | 8.00 | 31.00 | 61.30 | NICHOLAS | 7.70 | 78.60 | 4.90 | 0.70 | 381821 | 805319 | B | 13990 | 09/01/88 |
| | | | | | | | | | 6.60 | 1.50 | | 8.0 | 2804 |
| HOLE B-88 | 2.70 | 37.80 | 40.70 | KANAWHA | 21.50 | 59.90 | 4.60 | 7.00 | 381836 | 814353 | B | 10990 | 09/01/88 |
| | | | | | | | | | 6.00 | 1.00 | | 4.5 | 2102 |
| MINE 2A, PEERLESS EAGLE CC | 2.40 | 35.20 | 59.10 | NICHOLAS | 5.70 | 80.70 | 5.20 | 1.30 | 381902 | 805154 | B | 14240 | 09/01/88 |
| | | | | | | | | | 5.50 | 1.60 | | 9.0 | 2282 |
| UNDERGROUND | 2.20 | 34.60 | 57.00 | NICHOLAS | 8.40 | 77.90 | 4.80 | 1.20 | 381905 | 805302 | B | 13660 | 09/01/88 |
| | | | | | | | | | 6.40 | 1.30 | | 8.0 | 2201 |
| NO 1 MINE, STAR COAL CO | 3.30 | 32.60 | 56.90 | NICHOLAS | 10.50 | 76.70 | 4.80 | 0.60 | 381906 | 805355 | B | 13580 | 09/01/88 |
| | | | | | | | | | 6.00 | 1.40 | | 8.0 | 2849 |
| | 1.60 | 25.90 | 46.20 | KANAWHA | 27.90 | 58.70 | 4.00 | 0.70 | 381908 | 811712 | B | 10240 | 09/01/88 |
| | | | | | | | | | 7.70 | 1.00 | | 1.5 | 2912 |
| | 4.20 | 32.30 | 47.80 | KANAWHA | 19.90 | 65.70 | 4.40 | 1.40 | 381912 | 811756 | B | 11610 | 09/01/88 |
| | | | | | | | | | 7.30 | 1.30 | | 1.5 | 2678 |
| UNDERGROUND | 2.10 | 33.80 | 55.40 | NICHOLAS | 10.80 | 76.20 | 4.90 | 2.10 | 381933 | 805141 | B | 13520 | 09/01/88 |
| | | | | | | | | | 4.50 | 1.50 | | 8.5 | 2912 |
| STRIP | 2.70 | 34.90 | 62.80 | NICHOLAS | 2.30 | 83.60 | 5.30 | 0.80 | 381935 | 804234 | B | 14880 | 09/01/88 |
| | | | | | | | | | 6.20 | 1.80 | | 8.5 | 2804 |
| STRIP | 4.10 | 33.90 | 59.30 | NICHOLAS | 6.80 | 79.90 | 5.10 | 0.60 | 381939 | 805008 | B | 14230 | 09/01/88 |
| | | | | | | | | | 5.90 | 1.70 | | 8.0 | 2804 |
| UNDERGROUND | 3.50 | 33.30 | 58.90 | NICHOLAS | 7.80 | 79.50 | 5.00 | 0.50 | 381939 | 805400 | B | 14030 | 09/01/88 |
| | | | | | | | | | 5.70 | 1.50 | | 8.0 | 2912 |
| UNDERGROUND | 3.20 | 36.70 | 56.30 | NICHOLAS | 7.00 | 79.40 | 5.20 | 1.50 | 381948 | 805538 | B | 14120 | 09/01/88 |
| | | | | | | | | | 5.40 | 1.50 | | 8.5 | 2453 |
| | 3.00 | 35.80 | 48.50 | KANAWHA | 15.70 | 69.60 | 4.50 | 1.20 | 381952 | 812201 | B | 12360 | 09/01/88 |
| | | | | | | | | | 7.70 | 1.30 | | 5.0 | 2912 |
| NO 2 MINE, PHILLIPS RUN CC | 2.60 | 34.10 | 56.10 | NICHOLAS | 9.80 | 76.40 | 4.90 | 0.70 | 382001 | 804852 | B | 13680 | 09/01/88 |
| | | | | | | | | | 6.70 | 1.50 | | 8.5 | 2192 |
| STRIP | 3.00 | 33.60 | 55.70 | NICHOLAS | 10.70 | 75.90 | 5.00 | 1.10 | 382047 | 804751 | B | 13400 | 09/01/88 |
| | | | | | | | | | 6.00 | 1.30 | | 8.5 | 2264 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-----------------------------|----------|-----------|----------|----------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | Ash | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| DRIFT | | | | NICHOLAS | | | | | | | | |
| 2.00 | 30.60 | 52.30 | 17.10 | | 70.40 | 4.60 | 0.90 | 382050 | 805306 | B | 12520 | 09/01/88 |
| | | | | | | | | 5.70 | 1.30 | | 8.0 | 2786 |
| NO 2 MINE, BIG FORK COAL CO | | | | NICHOLAS | | | | | | | | |
| 1.20 | 32.50 | 52.80 | 14.70 | | 72.50 | 4.50 | 0.70 | 382330 | 804901 | B | 12830 | 09/01/88 |
| | | | | | | | | 6.20 | 1.40 | | 5.0 | 2912 |
| STRIP | | | | WEBSTER | | | | | | | | |
| 2.90 | 35.20 | 50.60 | 14.20 | | 70.20 | 5.00 | 2.00 | 382457 | 802405 | B | 12610 | 09/01/88 |
| | | | | | | | | 7.20 | 1.40 | | 5.0 | 2615 |
| STRIP | | | | WEBSTER | | | | | | | | |
| 3.70 | 36.60 | 61.50 | 1.90 | | 83.60 | 5.70 | 0.80 | 382527 | 803103 | B | 15070 | 09/01/88 |
| | | | | | | | | 6.40 | 1.60 | | 9.0 | 2282 |
| STRIP | | | | NICHOLAS | | | | | | | | |
| 3.60 | 32.40 | 48.90 | 18.70 | | 68.20 | 4.50 | 1.00 | 382528 | 804912 | B | 12080 | 09/01/88 |
| | | | | | | | | 6.40 | 1.20 | | 4.5 | 2804 |
| UNDERGROUND | | | | NICHOLAS | | | | | | | | |
| 3.50 | 32.60 | 48.20 | 19.20 | | 67.30 | 4.50 | 0.80 | 382555 | 805220 | B | 12010 | 09/01/88 |
| | | | | | | | | 7.00 | 1.20 | | 8.0 | 2804 |
| STRIP | | | | WEBSTER | | | | | | | | |
| 2.10 | 33.30 | 53.20 | 13.50 | | 71.50 | 5.00 | 4.60 | 382605 | 803456 | B | 13010 | 09/01/88 |
| | | | | | | | | 4.00 | 1.40 | | 9.0 | 2030 |
| STRIP | | | | WEBSTER | | | | | | | | |
| 5.20 | 34.80 | 62.90 | 2.30 | | 83.50 | 5.50 | 0.60 | 382632 | 803106 | B | 15000 | 09/01/88 |
| | | | | | | | | 6.50 | 1.60 | | 9.0 | 2309 |
| UNDERGROUND | | | | WEBSTER | | | | | | | | |
| 2.80 | 32.20 | 64.60 | 3.20 | | 84.30 | 5.20 | 0.80 | 382641 | 802036 | B | 15020 | 09/01/88 |
| | | | | | | | | 5.10 | 1.40 | | 8.5 | 2804 |
| STRIP | | | | WEBSTER | | | | | | | | |
| 4.00 | 29.60 | 62.80 | 7.60 | | 78.80 | 4.70 | 0.70 | 382645 | 802229 | B | 13960 | 09/01/88 |
| | | | | | | | | 6.70 | 1.50 | | 7.0 | 2804 |
| STRIP | | | | WEBSTER | | | | | | | | |
| 2.50 | 30.80 | 63.10 | 6.10 | | 82.00 | 5.00 | 0.60 | 382650 | 802040 | B | 14520 | 09/01/88 |
| | | | | | | | | 4.80 | 1.50 | | 7.0 | 0 |
| UNDERGROUND | | | | WEBSTER | | | | | | | | |
| 2.40 | 26.70 | 64.20 | 9.10 | | 79.10 | 4.60 | 0.40 | 382651 | 802510 | B | 13680 | 09/01/88 |
| | | | | | | | | 6.00 | 0.80 | | 6.5 | 2912 |
| UNDERGROUND | | | | CLAY | | | | | | | | |
| 3.90 | 37.90 | 48.50 | 13.60 | | 70.70 | 5.00 | 3.70 | 382651 | 810806 | B | 12730 | 09/01/88 |
| | | | | | | | | 5.80 | 1.20 | | 6.5 | 2192 |
| STRIP | | | | WEBSTER | | | | | | | | |
| 2.70 | 36.50 | 60.90 | 2.60 | | 83.40 | 5.40 | 1.00 | 382657 | 802734 | B | 14970 | 09/01/88 |
| | | | | | | | | 5.80 | 1.80 | | 8.5 | 2138 |
| STRIP | | | | WEBSTER | | | | | | | | |
| 2.20 | 30.00 | 65.70 | 4.30 | | 83.30 | 5.50 | 0.80 | 382752 | 801945 | B | 14820 | 09/01/88 |
| | | | | | | | | 5.00 | 1.10 | | 9.0 | 2669 |
| STRIP | | | | WEBSTER | | | | | | | | |
| 3.10 | 34.00 | 59.20 | 6.80 | | 79.40 | 5.10 | 0.60 | 382854 | 803729 | B | 13970 | 09/01/88 |
| | | | | | | | | 7.10 | 1.00 | | 8.0 | 2912 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-------------|----------|-----------|----------|------------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| OUTCROP | 1.20 | 28.90 | 58.50 | WEBSTER | 12.60 | 74.70 | 4.80 | 0.40 | 382932 | 802509 | B | 13270 | 09/01/88 |
| | | | | | | | | | 6.60 | 0.90 | | 4.5 | 2912 |
| OUTCROP | 2.90 | 27.40 | 55.80 | WEBSTER | 16.80 | 69.30 | 4.50 | 0.60 | 382936 | 802509 | B | 12160 | 09/01/88 |
| | | | | | | | | | 8.20 | 0.60 | | 5.0 | 2912 |
| OUTCROP | 2.30 | 28.10 | 65.90 | WEBSTER | 5.00 | 80.40 | 5.00 | 0.60 | 382942 | 802509 | B | 14180 | 09/01/88 |
| | | | | | | | | | 7.00 | 1.00 | | 9.0 | 2912 |
| OUTCROP | 6.40 | 27.80 | 58.50 | WEBSTER | 13.70 | 72.10 | 4.70 | 0.60 | 383254 | 803527 | B | 12590 | 09/01/88 |
| | | | | | | | | | 8.00 | 0.90 | | 1.0 | 2912 |
| UNDERGROUND | 2.60 | 31.90 | 60.90 | RANDOLPH | 7.20 | 80.70 | 5.10 | 0.60 | 383258 | 801050 | B | 14380 | 09/01/88 |
| | | | | | | | | | 5.10 | 1.30 | | 8.0 | 2804 |
| UNDERGROUND | 3.20 | 29.20 | 63.90 | RANDOLPH | 6.90 | 81.10 | 4.90 | 1.00 | 383521 | 800641 | B | 14320 | 09/01/88 |
| | | | | | | | | | 4.80 | 1.30 | | 8.5 | 2804 |
| STRIP | 3.80 | 34.10 | 62.40 | RANDOLPH | 3.50 | 83.30 | 5.30 | 0.70 | 383634 | 800929 | B | 14890 | 09/01/88 |
| | | | | | | | | | 5.50 | 1.70 | | 8.5 | 2228 |
| STRIP | 4.40 | 38.00 | 55.90 | BRAXTON | 6.10 | 77.60 | 5.30 | 1.60 | 384031 | 805145 | B | 13970 | 09/01/88 |
| | | | | | | | | | 8.00 | 1.40 | | 7.5 | 2057 |
| UNDERGROUND | 3.20 | 30.20 | 66.00 | RANDOLPH | 3.80 | 84.20 | 5.10 | 0.50 | 384123 | 800842 | B | 14860 | 09/01/88 |
| | | | | | | | | | 4.90 | 1.50 | | 8.0 | 0 |
| UNDERGROUND | 2.90 | 28.00 | 65.60 | RANDOLPH | 6.40 | 80.90 | 4.70 | 1.10 | 384124 | 800849 | B | 14250 | 09/01/88 |
| | | | | | | | | | 5.70 | 1.20 | | 7.5 | 2804 |
| STRIP | 4.80 | 31.20 | 55.10 | UPSHUR | 13.70 | 72.20 | 4.70 | 0.60 | 384645 | 802116 | B | 12760 | 09/01/88 |
| | | | | | | | | | 7.40 | 1.40 | | 1.5 | 2804 |
| STRIP | 2.60 | 25.10 | 66.80 | GREENBRIER | 8.10 | 79.20 | 4.70 | 1.80 | 385000 | 803258 | B | 14200 | 09/01/88 |
| | | | | | | | | | 4.50 | 1.70 | | 9.0 | 2507 |
| STRIP | 3.30 | 32.40 | 52.80 | UPSHUR | 14.80 | 72.10 | 4.80 | 0.70 | 385020 | 801228 | B | 12810 | 09/01/88 |
| | | | | | | | | | 6.30 | 1.30 | | 8.5 | 2804 |
| STRIP | 3.00 | 39.40 | 53.10 | BRAXTON | 7.50 | 76.40 | 5.40 | 2.00 | 385133 | 804413 | B | 13650 | 09/01/88 |
| | | | | | | | | | 7.40 | 1.30 | | 6.0 | 2264 |
| STRIP | 4.10 | 37.90 | 51.60 | GILMER | 10.50 | 72.70 | 4.90 | 3.00 | 385426 | 804737 | B | 13140 | 09/01/88 |
| | | | | | | | | | 7.60 | 1.30 | | 4.0 | 2111 |
| STRIP | 2.30 | 40.50 | 53.10 | GILMER | 6.40 | 77.40 | 5.30 | 2.10 | 385458 | 804718 | B | 13860 | 09/01/88 |
| | | | | | | | | | 7.40 | 1.40 | | 6.5 | 2246 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank | Htg Val Free Swell | Last Chg Hemi Temp |
|---------------|----------|-----------|----------|---------|--------|----------|--------|--------------------|-----------------------|------|-----------------------|-----------------------|
| HOLE NO TB47R | 2.10 | 41.70 | 51.70 | LEWIS | 6.60 | 76.50 | 3.90 | 385528 6.60 | 802827 1.10 | B | 13930 8.0 | 09/01/88 2066 |
| UNDERGROUND | 3.10 | 39.50 | 51.20 | GILMER | 9.30 | 74.00 | 3.10 | 385540 7.30 | 804759 1.30 | B | 13350 4.0 | 09/01/88 2102 |
| HOLE NO S-5 | 3.00 | 39.10 | 49.10 | LEWIS | 11.80 | 71.30 | 5.20 | 385612 5.40 | 802950 1.20 | B | 13070 7.0 | 09/01/88 2012 |
| UNDERGROUND | 3.60 | 35.60 | 42.90 | MASON | 21.50 | 60.10 | 4.10 | 385630 9.20 | 820247 0.70 | B | 10870 1.0 | 09/01/88 2192 |
| HOLE CS NO 1 | 1.80 | 33.50 | 54.30 | LEWIS | 12.20 | 75.70 | 0.50 | 385652 5.40 | 803103 1.40 | B | 13380 5.0 | 09/01/88 2471 |
| STRIP | 3.10 | 41.00 | 48.90 | LEWIS | 10.10 | 73.80 | 3.20 | 385828 6.20 | 802308 1.30 | B | 13330 6.5 | 09/01/88 2147 |
| | 6.30 | 19.60 | 68.00 | TUCKER | 12.40 | 78.00 | 2.70 | 385845 1.60 | 792200 1.10 | B | 13600 8.0 | 09/01/88 2354 |
| HOLE CS NO 2 | 2.40 | 40.30 | 50.00 | LEWIS | 9.70 | 73.70 | 4.50 | 385846 5.40 | 802824 1.30 | B | 13420 7.5 | 09/01/88 2003 |
| UNDERGROUND | 2.20 | 32.00 | 63.30 | FAYETTE | 4.70 | 83.50 | 0.60 | 385905 4.40 | 812128 1.60 | B | 14870 7.5 | 09/01/88 2804 |
| | 9.40 | 19.50 | 66.90 | TUCKER | 13.60 | 76.30 | 1.80 | 390010 3.10 | 792115 1.20 | B | 13190 4.0 | 09/01/88 2138 |
| STRIP | 3.50 | 39.50 | 52.50 | UPSHUR | 8.00 | 76.20 | 3.60 | 390011 5.90 | 801756 1.10 | B | 13840 8.0 | 09/01/88 2102 |
| HOLE NO 93 | 3.40 | 39.00 | 51.40 | LEWIS | 9.60 | 73.90 | 4.00 | 390012 2.00 | 802824 1.10 | B | 13320 5.0 | 09/01/88 2021 |
| STRIP | 2.90 | 42.30 | 48.10 | LEWIS | 9.60 | 74.20 | 2.70 | 390109 7.20 | 804252 1.30 | B | 13310 6.5 | 09/01/88 2336 |
| | 3.00 | 22.70 | 59.90 | TUCKER | 17.40 | 70.00 | 6.30 | 390115 1.20 | 792100 1.10 | B | 12640 9.0 | 09/01/88 2039 |
| STRIP | 2.40 | 41.20 | 51.00 | LEWIS | 7.80 | 76.30 | 3.20 | 390119 6.20 | 802053 1.20 | B | 13930 7.5 | 09/01/88 2138 |
| STRIP | 2.40 | 42.00 | 52.30 | LEWIS | 5.70 | 78.20 | 2.80 | 390203 6.60 | 802343 1.20 | B | 13990 7.5 | 09/01/88 2192 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Code Number | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-------------|----------|-----------|----------|----------|-------|--------|----------|--------|-------------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| STRIP | 2.50 | 42.50 | 47.80 | LEWIS | 9.70 | 72.80 | 5.40 | 3.80 | W206580 | 390231 | 804320 | B | 13300 | 09/01/88 |
| | | | | | | | | | | 7.10 | 1.20 | | 6.0 | 2111 |
| STRIP | 2.00 | 38.40 | 55.90 | UPSHUR | 5.70 | 78.80 | 5.40 | 2.20 | W206575 | 390233 | 801343 | B | 14100 | 09/01/88 |
| | | | | | | | | | | 6.60 | 1.30 | | 8.5 | 2111 |
| STRIP | 3.20 | 40.20 | 51.20 | LEWIS | 8.60 | 75.00 | 5.20 | 2.70 | W206586 | 390244 | 803552 | B | 13450 | 09/01/88 |
| | | | | | | | | | | 7.30 | 1.20 | | 6.5 | 2156 |
| STRIP | 3.50 | 36.20 | 47.10 | UPSHUR | 16.70 | 68.30 | 4.70 | 4.10 | W194978 | 390257 | 801111 | B | 12500 | 09/01/88 |
| | | | | | | | | | | 5.10 | 1.10 | | 8.5 | 2255 |
| STRIP | 2.10 | 39.20 | 54.30 | UPSHUR | 6.50 | 78.70 | 5.30 | 1.80 | W194977 | 390312 | 801245 | B | 14220 | 09/01/88 |
| | | | | | | | | | | 6.30 | 1.40 | | 8.5 | 2219 |
| STRIP | 3.30 | 41.70 | 51.20 | LEWIS | 7.10 | 75.70 | 5.20 | 3.70 | W206581 | 390321 | 803802 | B | 13840 | 09/01/88 |
| | | | | | | | | | | 7.10 | 1.20 | | 7.5 | 2111 |
| STRIP | 2.10 | 41.60 | 51.50 | LEWIS | 6.90 | 77.10 | 5.20 | 3.20 | W194982 | 390341 | 802303 | B | 14000 | 09/01/88 |
| | | | | | | | | | | 6.50 | 1.10 | | 7.5 | 2111 |
| UNDERGROUND | 2.80 | 30.20 | 54.10 | BARBOUR | 15.70 | 71.90 | 4.50 | 1.90 | W194952 | 390348 | 800609 | B | 12770 | 09/01/88 |
| | | | | | | | | | | 4.80 | 1.20 | | 7.5 | 2642 |
| STRIP | 4.30 | 38.20 | 50.20 | LEWIS | 11.60 | 72.50 | 4.90 | 2.30 | W194979 | 390405 | 802056 | B | 13070 | 09/01/88 |
| | | | | | | | | | | 7.60 | 1.10 | | 8.0 | 2354 |
| STRIP | 1.90 | 41.10 | 52.50 | LEWIS | 6.40 | 78.30 | 5.30 | 2.30 | W194980 | 390448 | 801932 | B | 14180 | 09/01/88 |
| | | | | | | | | | | 6.60 | 1.10 | | 7.5 | 2192 |
| UNDERGROUND | 2.60 | 40.20 | 52.60 | BARBOUR | 7.20 | 77.60 | 5.50 | 3.00 | W206582 | 390629 | 801053 | B | 14100 | 09/01/88 |
| | | | | | | | | | | 5.20 | 1.50 | | 8.0 | 2048 |
| STRIP | 2.80 | 36.40 | 57.30 | BARBOUR | 6.30 | 79.40 | 5.20 | 0.90 | W194973 | 390631 | 801237 | B | 14250 | 09/01/88 |
| | | | | | | | | | | 6.70 | 1.50 | | 9.0 | 2804 |
| STRIP | 1.70 | 42.70 | 50.50 | HARRISON | 6.80 | 77.20 | 5.50 | 3.30 | W194974 | 390643 | 801734 | B | 14150 | 09/01/88 |
| | | | | | | | | | | 6.10 | 1.10 | | 8.5 | 2138 |
| UNDERGROUND | 2.10 | 38.40 | 51.60 | UPSHUR | 10.00 | 74.30 | 5.20 | 3.30 | W206553 | 390647 | 801400 | B | 13420 | 09/01/88 |
| | | | | | | | | | | 5.90 | 1.30 | | 8.5 | 2102 |
| STRIP | 2.50 | 38.60 | 51.00 | BARBOUR | 10.40 | 75.00 | 5.20 | 2.80 | W194976 | 390648 | 800853 | B | 13580 | 09/01/88 |
| | | | | | | | | | | 5.30 | 1.30 | | 9.0 | 2246 |
| UNDERGROUND | 2.20 | 36.50 | 56.00 | BARBOUR | 7.50 | 77.50 | 5.30 | 2.20 | W207555 | 390658 | 800842 | B | 13870 | 09/01/88 |
| | | | | | | | | | | 6.10 | 1.40 | | 9.0 | 2102 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-------------|----------|-----------|----------|----------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| STRIP | 2.40 | 35.50 | 56.60 | BARBOUR | 7.90 | 78.20 | W194975 | 1.60 | 390702 | 800847 | B | 14000 | 09/01/88 |
| | | | | | | | 5.20 | 5.80 | 5.80 | 1.30 | | 9.0 | 2318 |
| STRIP | 3.10 | 39.60 | 53.90 | HARRISON | 6.50 | 77.10 | W206576 | 2.20 | 390705 | 802142 | B | 13870 | 09/01/88 |
| | | | | | | | 5.20 | 7.70 | 7.70 | 1.30 | | 7.5 | 2210 |
| STRIP | 2.30 | 37.40 | 54.30 | HARRISON | 8.30 | 76.50 | W206574 | 2.00 | 390720 | 801351 | B | 13690 | 09/01/88 |
| | | | | | | | 5.40 | 6.40 | 6.40 | 1.40 | | 8.5 | 2147 |
| UNDERGROUND | 1.50 | 40.40 | 49.40 | BARBOUR | 10.20 | 76.30 | W206573 | 5.30 | 390730 | 801308 | B | 13370 | 09/01/88 |
| | | | | | | | 5.30 | 1.60 | 1.60 | 1.30 | | 8.0 | 2111 |
| STRIP | 3.00 | 38.20 | 52.10 | BARBOUR | 9.70 | 74.70 | W194965 | 4.90 | 390732 | 800815 | B | 13690 | 09/01/88 |
| | | | | | | | 5.10 | 4.30 | 4.30 | 1.30 | | 9.0 | 2057 |
| UNDERGROUND | 2.80 | 37.60 | 53.40 | BARBOUR | 9.00 | 76.00 | W206554 | 2.70 | 390735 | 800928 | B | 13580 | 09/01/88 |
| | | | | | | | 5.10 | 5.90 | 5.90 | 1.30 | | 8.5 | 2156 |
| STRIP | 2.70 | 37.30 | 53.00 | BARBOUR | 9.70 | 75.40 | W194964 | 3.30 | 390740 | 800754 | B | 13660 | 09/01/88 |
| | | | | | | | 5.00 | 5.40 | 5.40 | 1.20 | | 9.0 | 2147 |
| STRIP | 3.30 | 36.40 | 57.10 | BARBOUR | 6.50 | 79.20 | W194962 | 3.30 | 390756 | 801221 | B | 14120 | 09/01/88 |
| | | | | | | | 5.20 | 4.40 | 4.40 | 1.40 | | 9.0 | 2543 |
| STRIP | 2.60 | 41.90 | 52.10 | HARRISON | 6.00 | 76.90 | W210340 | 3.70 | 390803 | 802140 | B | 14070 | 09/01/88 |
| | | | | | | | 5.40 | 6.70 | 6.70 | 1.30 | | 8.0 | 2021 |
| STRIP | 1.20 | 38.40 | 53.70 | BARBOUR | 7.90 | 76.70 | W189284 | 2.20 | 390807 | 801025 | B | 13830 | 09/01/88 |
| | | | | | | | 5.30 | 6.80 | 6.80 | 1.10 | | 9.0 | 2462 |
| STRIP | 3.50 | 39.50 | 49.40 | BARBOUR | 11.10 | 74.30 | W194963 | 4.10 | 390820 | 801228 | B | 13580 | 09/01/88 |
| | | | | | | | 5.10 | 4.10 | 4.10 | 1.30 | | 8.0 | 2057 |
| STRIP | 2.80 | 36.60 | 55.90 | BARBOUR | 7.50 | 78.30 | W194972 | 1.70 | 390821 | 801006 | B | 14090 | 09/01/88 |
| | | | | | | | 5.20 | 6.00 | 6.00 | 1.30 | | 9.0 | 2255 |
| STRIP | 1.60 | 41.30 | 51.30 | BARBOUR | 7.40 | 77.30 | W206572 | 2.70 | 390859 | 801303 | B | 13990 | 09/01/88 |
| | | | | | | | 5.40 | 5.80 | 5.80 | 1.40 | | 9.0 | 2156 |
| UNDERGROUND | 2.10 | 36.20 | 53.20 | BARBOUR | 10.60 | 74.80 | W206568 | 1.80 | 390911 | 801104 | B | 13370 | 09/01/88 |
| | | | | | | | 5.00 | 6.40 | 6.40 | 1.40 | | 9.0 | 2246 |
| UNDERGROUND | 1.30 | 36.80 | 54.30 | BARBOUR | 8.90 | 75.60 | W189285 | 2.40 | 390927 | 801019 | B | 13670 | 09/01/88 |
| | | | | | | | 5.30 | 6.80 | 6.80 | 1.00 | | 9.0 | 2345 |
| UNDERGROUND | 1.60 | 31.10 | 48.90 | BARBOUR | 20.00 | 67.80 | W194953 | 1.50 | 390945 | 795937 | B | 12230 | 09/01/88 |
| | | | | | | | 4.50 | 4.80 | 4.80 | 1.40 | | 8.5 | 2804 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Code Number | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|-------------|----------|-----------|----------|----------|--------|----------|-------------|--------|----------|-----------|-----------|------------|-----------|
| | | | Ash | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| UNDERGROUND | 1.90 | 31.20 | 53.80 | BARBOUR | 71.50 | 4.90 | W194954 | 3.70 | 390949 | 800313 | B | 12920 | 09/01/88 |
| | | | 15.00 | | | | | | 3.50 | 1.40 | | 9.0 | 2246 |
| STRIP | 3.70 | 33.50 | 58.60 | BARBOUR | 77.60 | 5.10 | W206567 | 1.10 | 391035 | 800639 | B | 13740 | 09/01/88 |
| | | | 7.90 | | | | | | 6.80 | 1.50 | | 9.0 | 2714 |
| STRIP | 1.80 | 40.70 | 51.40 | HARRISON | 76.30 | 5.30 | W210197 | 2.90 | 391050 | 802146 | B | 13800 | 09/01/88 |
| | | | 7.90 | | | | | | 6.30 | 1.30 | | 7.5 | 2102 |
| STRIP | 1.70 | 38.40 | 50.60 | BARBOUR | 73.60 | 5.00 | W206569 | 3.30 | 391052 | 801145 | B | 13310 | 09/01/88 |
| | | | 11.00 | | | | | | 5.80 | 1.30 | | 8.5 | 2201 |
| STRIP | 1.00 | 38.10 | 54.30 | BARBOUR | 78.70 | 5.40 | W194969 | 1.80 | 391103 | 800732 | B | 14260 | 09/01/88 |
| | | | 7.60 | | | | | | 4.90 | 1.60 | | 9.0 | 2219 |
| STRIP | 3.10 | 35.90 | 55.80 | BARBOUR | 76.80 | 5.00 | W194970 | 2.90 | 391105 | 800722 | B | 13890 | 09/01/88 |
| | | | 8.30 | | | | | | 5.70 | 1.30 | | 9.0 | 2318 |
| STRIP | 2.30 | 33.70 | 53.00 | BARBOUR | 72.70 | 4.90 | W194971 | 2.70 | 391122 | 800621 | B | 13120 | 09/01/88 |
| | | | 13.30 | | | | | | 5.10 | 1.30 | | 9.0 | 2237 |
| STRIP | 3.60 | 36.70 | 56.70 | BARBOUR | 77.80 | 5.20 | W194968 | 1.80 | 391130 | 800931 | B | 14060 | 09/01/88 |
| | | | 6.60 | | | | | | 7.10 | 1.50 | | 9.0 | 2408 |
| STRIP | 1.40 | 29.90 | 51.10 | BARBOUR | 68.60 | 4.60 | W206571 | 2.90 | 391151 | 800308 | B | 12250 | 09/01/88 |
| | | | 19.00 | | | | | | 3.70 | 1.20 | | 8.0 | 2273 |
| STRIP | 3.10 | 36.80 | 50.40 | BARBOUR | 72.90 | 4.80 | W194966 | 3.30 | 391151 | 801127 | B | 13090 | 09/01/88 |
| | | | 12.80 | | | | | | 5.00 | 1.20 | | 8.5 | 2111 |
| STRIP | 2.70 | 36.70 | 52.10 | HARRISON | 73.00 | 4.80 | W206570 | 3.60 | 391255 | 801232 | B | 13140 | 09/01/88 |
| | | | 11.20 | | | | | | 6.20 | 1.20 | | 8.5 | 2147 |
| STRIP | 2.70 | 38.10 | 53.20 | BARBOUR | 76.50 | 5.20 | W194960 | 3.70 | 391353 | 801015 | B | 13890 | 09/01/88 |
| | | | 8.70 | | | | | | 4.60 | 1.30 | | 9.0 | 2255 |
| STRIP | 1.50 | 37.10 | 55.40 | TAYLOR | 77.80 | 5.20 | W194959 | 1.60 | 391444 | 800722 | B | 14180 | 09/01/88 |
| | | | 7.50 | | | | | | 6.40 | 1.50 | | 9.0 | 2156 |
| OUTCROP | 1.50 | 36.40 | 48.90 | HARRISON | 69.70 | 4.90 | W189280 | 2.80 | 391652 | 801701 | B | 12590 | 09/01/88 |
| | | | 14.70 | | | | | | 6.90 | 1.00 | | 9.0 | 2156 |
| STRIP | 2.70 | 37.40 | 56.40 | TAYLOR | 79.50 | 5.40 | W194958 | 0.40 | 391917 | 800416 | B | 14390 | 09/01/88 |
| | | | 6.20 | | | | | | 6.90 | 1.60 | | 9.0 | 2246 |
| UNDERGROUND | 2.70 | 36.10 | 57.00 | MARION | 78.50 | 5.20 | W206584 | 0.90 | 392954 | 801202 | B | 13940 | 09/01/88 |
| | | | 6.90 | | | | | | 6.90 | 1.60 | | 8.0 | 2291 |

Coal Field Information Printout for: WV - West Virginia

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrogen | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|---------------------|----------|-----------|----------|------------|-----|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| UNDERGROUND | | | | MARION | | | | | 393005 | 801111 | B | 14090 | 09/01/88 |
| 2.70 | 39.30 | 54.00 | 6.70 | | | 78.40 | 5.30 | 2.60 | 5.40 | 1.60 | | 9.0 | 2210 |
| UNDERGROUND | | | | MARION | | | | | 393045 | 801123 | B | 14100 | 09/01/88 |
| 2.40 | 38.20 | 54.90 | 6.90 | | | 78.90 | 5.40 | 1.40 | 5.80 | 1.60 | | 8.5 | 2408 |
| UNDERGROUND | | | | MARION | | | | | 393100 | 801203 | B | 13860 | 09/01/88 |
| 1.80 | 39.10 | 53.60 | 7.30 | | | 77.60 | 5.30 | 2.70 | 5.60 | 1.50 | | 9.0 | 2147 |
| STRIP | | | | PRESTON | | | | | 393430 | 793824 | B | 13780 | 09/01/88 |
| 0.90 | 27.00 | 62.50 | 10.50 | | | 77.30 | 4.90 | 1.50 | 4.70 | 1.10 | | 9.0 | 2687 |
| DIPPEL&DIPPEL STRIP | | | | MONONGALIA | | | | | 393730 | 800300 | B | 9220 | 09/01/88 |
| 1.20 | 28.30 | 35.60 | 36.10 | | | 51.10 | 3.80 | 2.10 | 5.80 | 1.10 | | 4.0 | 2804 |
| STRIP | | | | MONONGALIA | | | | | 393730 | 800329 | B | 13050 | 09/01/88 |
| 1.70 | 32.30 | 56.10 | 11.60 | | | 73.00 | 5.10 | 1.20 | 8.00 | 1.10 | | 5.5 | 2444 |
| STRIP | | | | MONONGALIA | | | | | 393804 | 795340 | B | 12710 | 09/01/88 |
| 7.10 | 33.80 | 54.50 | 11.70 | | | 72.40 | 4.90 | 1.10 | 8.40 | 1.50 | | 2.0 | 2516 |
| | | | | MONONGALIA | | | | | 393941 | 795038 | B | 9650 | 09/01/88 |
| 1.60 | 21.00 | 43.30 | 35.70 | | | 55.00 | 3.50 | 1.40 | 3.40 | 1.00 | | 1.0 | 2804 |
| DIPPEL&DIPPEL STRIP | | | | MONONGALIA | | | | | 394143 | 800100 | B | 10810 | 09/01/88 |
| 1.20 | 31.10 | 42.10 | 26.80 | | | 60.50 | 4.40 | 0.80 | 6.20 | 1.30 | | 6.0 | 2804 |
| STRIP | | | | MONONGALIA | | | | | 394155 | 800108 | B | 12160 | 09/01/88 |
| 2.10 | 35.40 | 46.70 | 17.90 | | | 66.80 | 4.80 | 3.90 | 5.30 | 1.30 | | 8.0 | 2372 |
| HOLE 5 | | | | LEWIS | | | | | 395451 | 802640 | B | 12640 | 09/01/88 |
| 1.80 | 37.40 | 46.70 | 15.90 | | | 69.80 | 4.90 | 1.60 | 6.50 | 1.30 | | 5.5 | 2750 |
| STRIP MINE | | | | LEWIS | | | | | 401410 | 803222 | B | 10010 | 09/01/88 |
| 7.00 | 28.70 | 41.50 | 29.80 | | | 56.10 | 4.10 | 2.00 | 7.60 | 0.40 | | 3.0 | 2678 |
| STRIP | | | | BROOKE | | | | | 401906 | 803300 | B | 13530 | 09/01/88 |
| 6.10 | 37.80 | 55.20 | 7.00 | | | 76.00 | 5.00 | 1.60 | 8.90 | 1.50 | | 7.0 | 2354 |
| STRIP | | | | BROOKE | | | | | 401950 | 803138 | B | 13270 | 09/01/88 |
| 4.80 | 38.10 | 53.30 | 8.60 | | | 75.00 | 5.10 | 2.40 | 7.50 | 1.40 | | 6.5 | 2138 |

Coal Field Information Printout for
WY - Wyoming

Coal Field Information Printout for: WY - Wyoming

| Location Moisture | Volatiles | Fxd Crbn | County Ash | Carbon | Hydrogen | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank Hardgrove | Htg Val Free Swell | Last Chg Hemi Temp |
|------------------------------|-----------|----------|---------------|--------|----------|--------|--------------------|-----------------------|-------------------|-----------------------|-----------------------|
| 14.70 | 36.10 | 53.10 | CARBON | 56.80 | 4.70 | 0.70 | 411245 15.20 | 1073045 1.80 | SB | 11460 0.0 | 09/01/88 2444 |
| 27.40 | 43.40 | 33.70 | CARBON | 49.10 | 2.80 | 1.10 | 411432 22.70 | 1072938 1.40 | SB | 7410 0.0 | 09/01/88 2453 |
| 17.50 | 33.50 | 50.50 | CARBON | 63.10 | 4.10 | 0.60 | 411548 14.50 | 1073342 1.70 | SB | 10820 0.0 | 09/01/88 2354 |
| 15.00 | 34.90 | 47.90 | CARBON | 61.70 | 4.30 | 0.60 | 411610 14.70 | 1073215 1.50 | SB | 10650 0.0 | 09/01/88 2804 |
| 17.70 | 34.30 | 44.00 | CARBON | 58.90 | 4.30 | 0.60 | 411829 13.40 | 1073231 1.10 | SB | 10210 0.0 | 09/01/88 2615 |
| 13.80 | 36.40 | 52.30 | CARBON | 67.20 | 4.60 | 0.50 | 412014 15.00 | 1073420 1.40 | SB | 11640 0.0 | 09/01/88 2462 |
| 15.50 | 34.00 | 47.50 | CARBON | 61.00 | 4.00 | 0.70 | 412125 14.50 | 1073039 1.30 | SB | 10500 0.0 | 09/01/88 2759 |
| 1.20 | 25.10 | 57.30 | SWEETWATER | 71.90 | 4.40 | 0.80 | 412230 3.60 | 1075230 1.70 | B | 12780 9.0 | 09/01/88 2732 |
| 27.00 | 45.10 | 45.10 | SWEETWATER | 58.80 | 3.30 | 0.80 | 412230 25.50 | 1083730 1.80 | SB | 9030 0.0 | 09/01/88 0 |
| 34.70 | 43.40 | 37.20 | SWEETWATER | 51.70 | 3.10 | 0.60 | 412230 23.70 | 1084500 1.50 | SB | 7960 0.0 | 09/01/88 0 |
| 14.20 | 38.80 | 51.80 | CARBON | 68.20 | 4.80 | 0.50 | 412325 15.70 | 1073118 1.40 | SB | 11780 0.0 | 09/01/88 2516 |
| 21.60 | 36.50 | 47.90 | CARBON | 62.20 | 3.80 | 0.60 | 413024 16.80 | 1073908 1.00 | SB | 10250 0.0 | 09/01/88 2264 |
| NO 7 SEAM STRIP MINE 8.50 | 40.30 | 52.70 | SWEETWATER | 72.70 | 5.00 | 0.90 | 413040 12.70 | 1091330 1.70 | B | 12680 0.5 | 09/01/88 2912 |
| 22.40 | 39.00 | 52.10 | CARBON | 66.80 | 4.10 | 0.50 | 413046 18.70 | 1073856 1.00 | SB | 11070 0.0 | 09/01/88 2201 |
| 10.40 | 42.50 | 51.50 | SWEETWATER | 73.80 | 5.20 | 1.00 | 413111 12.20 | 1091326 1.80 | SB | 13080 0.0 | 09/01/88 2246 |
| 20.50 | 37.70 | 48.10 | CARBON | 62.20 | 4.10 | 1.80 | 413112 16.70 | 1073758 1.00 | SB | 10310 0.0 | 09/01/88 2255 |

Coal Field Information Printout for: WY - Wyoming

| Location | Moisture | Volatiles | Fxd Crbn | County | Ash | Carbon | Hydrog n | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|----------|-------------------|-----------|----------|------------|-------|--------|----------|--------|----------|-----------|-----------|------------|-----------|
| | | | | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| | 23.40 | 38.10 | 48.10 | CARBON | 13.80 | 62.70 | 3.90 | 0.80 | 413136 | 1073759 | SB | 10460 | 09/01/88 |
| | | | | | | | | | 17.90 | 0.90 | | 0.0 | 2309 |
| | 25.20 | 37.30 | 49.30 | CARBON | 13.40 | 62.70 | 4.10 | 0.70 | 413152 | 1073712 | SB | 10440 | 09/01/88 |
| | | | | | | | | | 18.20 | 0.90 | | 0.0 | 2228 |
| | 9.50 | 41.50 | 54.10 | SWEETWATER | 4.40 | 74.30 | 5.00 | 0.90 | 413325 | 1091235 | B | 12970 | 09/01/88 |
| | | | | | | | | | 14.80 | 0.60 | | 0.5 | 2192 |
| | 14.40 | 36.70 | 54.30 | SWEETWATER | 9.00 | 67.90 | 4.20 | 0.80 | 413340 | 1091247 | B | 11360 | 09/01/88 |
| | | | | | | | | | 16.90 | 1.20 | | 0.0 | 2912 |
| | SWANSON DEEP MINE | | | | | | | | | | | | |
| | 10.20 | 39.30 | 49.20 | SWEETWATER | 11.50 | 67.70 | 4.60 | 1.20 | 413345 | 1091250 | B | 11850 | 09/01/88 |
| | | | | | | | | | 14.10 | 0.90 | | 0.5 | 2912 |
| | 17.50 | 32.00 | 35.00 | CARBON | 33.00 | 47.70 | 3.60 | 1.70 | 413413 | 1074539 | SB | 8060 | 09/01/88 |
| | | | | | | | | | 13.00 | 1.00 | | 0.0 | 2363 |
| | 19.50 | 32.90 | 32.70 | CARBON | 34.40 | 42.70 | 3.30 | 4.60 | 413450 | 1074441 | SB | 7220 | 09/01/88 |
| | | | | | | | | | 14.10 | 0.90 | | 0.0 | 2201 |
| | 19.60 | 36.10 | 37.20 | CARBON | 26.70 | 47.50 | 3.50 | 5.30 | 413501 | 1074505 | SB | 8090 | 09/01/88 |
| | | | | | | | | | 16.00 | 1.00 | | 0.0 | 2156 |
| | 21.20 | 32.40 | 30.60 | CARBON | 37.00 | 41.40 | 3.00 | 3.70 | 413505 | 1074447 | SB | 5960 | 09/01/88 |
| | | | | | | | | | 14.00 | 0.90 | | 0.0 | 2327 |
| | SWANSON DEEP MINE | | | | | | | | | | | | |
| | 11.70 | 41.10 | 54.60 | SWEETWATER | 4.30 | 75.00 | 5.00 | 1.10 | 413555 | 1091020 | B | 13010 | 09/01/88 |
| | | | | | | | | | 13.40 | 1.20 | | 0.5 | 2354 |
| | 38.80 | 44.90 | 46.40 | CARBON | 8.70 | 60.50 | 3.10 | 0.30 | 413700 | 1073410 | SB | 9130 | 09/01/88 |
| | | | | | | | | | 26.30 | 1.10 | | 0.0 | 2201 |
| | 24.50 | 38.70 | 51.80 | CARBON | 9.50 | 66.80 | 3.80 | 1.10 | 413725 | 1073440 | SB | 11150 | 09/01/88 |
| | | | | | | | | | 17.90 | 0.90 | | 0.0 | 2147 |
| | 41.60 | 45.70 | 45.90 | CARBON | 8.40 | 60.70 | 3.20 | 0.30 | 413733 | 1073427 | SB | 9040 | 09/01/88 |
| | | | | | | | | | 26.20 | 1.20 | | 0.0 | 2300 |
| | 20.50 | 31.20 | 30.40 | CARBON | 38.40 | 44.10 | 3.00 | 0.50 | 413740 | 1073403 | SB | 7190 | 09/01/88 |
| | | | | | | | | | 13.40 | 0.60 | | 0.0 | 2264 |
| | 39.50 | 43.30 | 48.40 | CARBON | 8.30 | 61.50 | 3.20 | 0.20 | 413815 | 1073335 | SB | 9400 | 09/01/88 |
| | | | | | | | | | 25.80 | 1.00 | | 0.0 | 2201 |
| | 43.40 | 42.40 | 43.30 | CARBON | 14.30 | 56.80 | 3.10 | 0.50 | 413821 | 1073327 | SB | 8550 | 09/01/88 |
| | | | | | | | | | 24.40 | 0.90 | | 0.0 | 2102 |

Coal Field Information Printout for: WY - Wyoming

| Location Moisture | Volatiles | Fxd Crbn | County Ash | Carbon | Hydrogen | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank Hardgrove | Htg Val Free Swell | Last Chg Hemi Temp |
|----------------------|-----------|----------|---------------|--------|----------|--------|--------------------|-----------------------|-------------------|-----------------------|-----------------------|
| 30.00 | 34.60 | 47.40 | CARBON | 18.00 | 60.70 | 4.20 | 413840 | 1073238 | SB | 10230 | 09/01/88 |
| | | | | | | | 14.90 | 0.90 | | 0.0 | 2246 |
| 23.20 | 38.80 | 50.70 | CARBON | 10.50 | 65.70 | 4.30 | 413903 | 1073218 | SB | 10980 | 09/01/88 |
| | | | | | | | 17.80 | 0.80 | | 0.0 | 2048 |
| 41.60 | 45.50 | 47.30 | CARBON | 7.20 | 61.60 | 3.00 | 413910 | 1073920 | SB | 9230 | 09/01/88 |
| | | | | | | | 27.10 | 0.90 | | 0.0 | 2084 |
| 42.60 | 48.20 | 41.30 | SWEETWATER | 10.50 | 59.30 | 2.60 | 413935 | 1073830 | SB | 8820 | 09/01/88 |
| | | | | | | | 26.50 | 0.90 | | 0.0 | 2183 |
| 36.30 | 44.30 | 45.20 | SWEETWATER | 10.50 | 60.20 | 3.20 | 413935 | 1073900 | SB | 9140 | 09/01/88 |
| | | | | | | | 24.70 | 0.90 | | 0.0 | 2165 |
| 25.80 | 45.80 | 46.00 | SWEETWATER | 8.20 | 68.80 | 4.80 | 413947 | 1073118 | SB | 11790 | 09/01/88 |
| | | | | | | | 16.50 | 0.80 | | 0.0 | 2084 |
| 41.80 | 43.30 | 40.20 | SWEETWATER | 16.50 | 53.10 | 2.80 | 413957 | 1073155 | SB | 7970 | 09/01/88 |
| | | | | | | | 25.50 | 1.20 | | 0.0 | 2417 |
| 26.20 | 37.00 | 54.60 | SWEETWATER | 8.40 | 68.20 | 4.20 | 414012 | 1073132 | SB | 11530 | 09/01/88 |
| | | | | | | | 16.50 | 1.20 | | 0.0 | 2102 |
| 39.70 | 45.10 | 44.30 | SWEETWATER | 10.60 | 58.40 | 3.00 | 414026 | 1073133 | SB | 8660 | 09/01/88 |
| | | | | | | | 26.10 | 1.20 | | 0.0 | 2318 |
| 26.10 | 32.20 | 44.30 | SWEETWATER | 23.50 | 58.20 | 3.80 | 414027 | 1073150 | SB | 9770 | 09/01/88 |
| | | | | | | | 12.90 | 0.80 | | 0.0 | 2246 |
| 16.70 | 42.90 | 54.50 | SWEETWATER | 2.60 | 74.10 | 4.70 | 414150 | 1091800 | B | 12630 | 09/01/88 |
| | | | | | | | 15.90 | 1.60 | | 0.5 | 2093 |
| 17.00 | 39.80 | 52.70 | CARBON | 7.50 | 67.60 | 4.50 | 414405 | 1072111 | SB | 11490 | 09/01/88 |
| | | | | | | | 17.90 | 1.80 | | 0.0 | 2129 |
| 23.80 | 43.40 | 49.60 | LINCOLN | 7.00 | 66.60 | 4.50 | 414417 | 1103729 | SB | 11230 | 09/01/88 |
| | | | | | | | 19.30 | 1.80 | | 0.0 | 2102 |
| 20.50 | 41.50 | 49.80 | LINCOLN | 8.70 | 67.70 | 4.70 | 414432 | 1103752 | SB | 11840 | 09/01/88 |
| | | | | | | | 15.90 | 1.90 | | 0.0 | 1976 |
| 12.10 | 41.20 | 47.70 | CARBON | 11.10 | 66.90 | 5.00 | 414500 | 1063000 | SB | 11750 | 09/01/88 |
| | | | | | | | 14.40 | 1.60 | | 0.0 | 0 |
| 21.90 | 41.90 | 48.40 | SWEETWATER | 9.70 | 64.00 | 4.10 | 414500 | 1084500 | SB | 10670 | 09/01/88 |
| | | | | | | | 19.90 | 1.50 | | 0.0 | 0 |

Coal Field Information Printout for: WY - Wyoming

| Location | | Volatiles | | Fxd Crbn | County | | Code Number | | Latitude | | Longitude | Rank | Htg Val | | Last Chg | |
|-----------------|-------|-----------|------------|----------|--------|--------|-------------|--------|----------|----------|-----------|------|------------|-----------|----------|--|
| Moisture | | | | | Ash | Carbon | Hydrogen | Sulfur | Oxygen | Nitrogen | | | Free Swell | Hemi Temp | | |
| ----- | | | | | | | | | | | | | | | | |
| HOLE NO RM-1-CS | | | | | | | | | | | | | | | | |
| 15.70 | 42.70 | 47.90 | CARBON | 9.40 | 63.20 | 4.50 | 0.60 | 414630 | 1060705 | SB | 10630 | 0.0 | 0.0 | 2912 | 09/01/88 | |
| ----- | | | | | | | | | | | | | | | | |
| 23.00 | 39.10 | 47.40 | SWEETWATER | 13.50 | 62.50 | 4.00 | 0.60 | 414658 | 1084532 | SB | 10310 | 0.0 | 0.0 | 2516 | 09/01/88 | |
| ----- | | | | | | | | | | | | | | | | |
| 20.60 | 42.70 | 53.10 | LINCOLN | 4.20 | 71.90 | 5.10 | 0.40 | 414703 | 1103705 | SB | 12480 | 0.0 | 0.0 | 2093 | 09/01/88 | |
| ----- | | | | | | | | | | | | | | | | |
| 15.60 | 42.20 | 52.60 | LINCOLN | 5.20 | 70.80 | 5.10 | 0.40 | 414710 | 1103650 | SB | 12320 | 0.0 | 0.0 | 2192 | 09/01/88 | |
| ----- | | | | | | | | | | | | | | | | |
| 17.50 | 42.50 | 53.00 | LINCOLN | 4.50 | 70.90 | 5.00 | 0.50 | 414712 | 1103706 | SB | 12340 | 0.0 | 0.0 | 2129 | 09/01/88 | |
| ----- | | | | | | | | | | | | | | | | |
| 18.90 | 41.30 | 52.30 | LINCOLN | 6.40 | 70.90 | 4.90 | 0.60 | 414714 | 1103630 | SB | 12280 | 0.0 | 0.0 | 2084 | 09/01/88 | |
| ----- | | | | | | | | | | | | | | | | |
| 16.70 | 43.80 | 51.40 | LINCOLN | 4.80 | 72.10 | 5.20 | 1.60 | 414720 | 1103640 | SB | 12640 | 0.0 | 0.0 | 2210 | 09/01/88 | |
| ----- | | | | | | | | | | | | | | | | |
| 15.40 | 42.70 | 52.80 | LINCOLN | 4.50 | 70.80 | 5.00 | 0.40 | 414726 | 1103650 | SB | 12210 | 0.0 | 0.0 | 2336 | 09/01/88 | |
| ----- | | | | | | | | | | | | | | | | |
| 16.00 | 29.30 | 33.90 | CARBON | 36.80 | 44.90 | 3.40 | 0.60 | 415051 | 1073052 | SB | 7620 | 0.0 | 0.0 | 2804 | 09/01/88 | |
| ----- | | | | | | | | | | | | | | | | |
| HOLE NO RM-1-CS | | | | | | | | | | | | | | | | |
| 34.40 | 42.80 | 37.70 | CARBON | 19.50 | 49.20 | 3.20 | 0.30 | 415155 | 1061650 | SB | 7410 | 0.0 | 0.0 | 2840 | 09/01/88 | |
| ----- | | | | | | | | | | | | | | | | |
| 11.30 | 38.40 | 49.30 | CARBON | 12.30 | 66.30 | 4.60 | 0.50 | 415212 | 1064027 | SB | 11350 | 0.0 | 0.0 | 2147 | 09/01/88 | |
| ----- | | | | | | | | | | | | | | | | |
| 10.70 | 43.10 | 45.40 | CARBON | 11.50 | 66.70 | 5.10 | 0.80 | 415230 | 1063000 | SB | 11930 | 0.0 | 0.0 | 0 | 09/01/88 | |
| ----- | | | | | | | | | | | | | | | | |
| 12.60 | 42.00 | 51.80 | CARBON | 6.20 | 71.90 | 4.80 | 0.70 | 415230 | 1063730 | SB | 12380 | 0.0 | 0.0 | 0 | 09/01/88 | |
| ----- | | | | | | | | | | | | | | | | |
| 10.50 | 40.00 | 55.30 | CARBON | 4.70 | 69.40 | 4.30 | 0.30 | 415230 | 1064500 | SB | 11540 | 0.0 | 0.0 | 0 | 09/01/88 | |
| ----- | | | | | | | | | | | | | | | | |
| 14.40 | 36.90 | 52.80 | CARBON | 10.30 | 67.10 | 4.30 | 0.50 | 415310 | 1064925 | SB | 11440 | 0.0 | 0.0 | 2264 | 09/01/88 | |
| ----- | | | | | | | | | | | | | | | | |
| 10.10 | 41.40 | 51.60 | CARBON | 7.00 | 71.60 | 5.00 | 0.70 | 415312 | 1064002 | SB | 12400 | 0.0 | 0.0 | 2129 | 09/01/88 | |

Coal Field Information Printout for: WY - Wyoming

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Code Number | | Latitude | Longitude | Rank | Htg Val | Last Chg |
|--------------------|----------|-----------|----------|--------|--------|----------|-------------|------|----------|-----------|-----------|------------|-----------|
| | | | | Ash | | | Sulfur | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| 13.80 | 38.60 | 51.40 | 10.00 | CARBON | 67.20 | D170255 | 4.50 | 0.50 | 415338 | 1064806 | B | 11540 | 09/01/88 |
| | | | | | | | | | 16.90 | 0.90 | | 0.0 | 2120 |
| 16.00 | 40.80 | 54.60 | 4.60 | CARBON | 71.40 | D170254 | 4.80 | 0.50 | 415348 | 1064831 | B | 12120 | 09/01/88 |
| | | | | | | | | | 17.70 | 1.00 | | 0.0 | 2426 |
| 12.30 | 38.20 | 53.80 | 8.00 | CARBON | 71.20 | D170260 | 4.80 | 0.60 | 415354 | 1063823 | B | 12340 | 09/01/88 |
| | | | | | | | | | 14.10 | 1.30 | | 0.0 | 2111 |
| RIMROCK STRIP MINE | | | | | | | | | | | | | |
| 14.60 | 37.80 | 50.00 | 12.20 | CARBON | 64.30 | D177435 | 4.20 | 1.30 | 415355 | 1063804 | SB | 10830 | 09/01/88 |
| | | | | | | | | | 16.50 | 1.50 | | 0.0 | 2183 |
| 11.30 | 45.20 | 48.70 | 6.10 | CARBON | 73.30 | D170253 | 5.50 | 0.50 | 415403 | 1064550 | B | 12800 | 09/01/88 |
| | | | | | | | | | 13.10 | 1.50 | | 0.0 | 2120 |
| 12.40 | 44.70 | 45.30 | 10.00 | CARBON | 68.20 | D170259 | 4.90 | 1.40 | 415410 | 1063039 | B | 11930 | 09/01/88 |
| | | | | | | | | | 14.00 | 1.50 | | 0.0 | 2129 |
| 12.50 | 36.50 | 54.00 | 9.50 | CARBON | 68.70 | D183110 | 4.60 | 0.70 | 415435 | 1064750 | SB | 11770 | 09/01/88 |
| | | | | | | | | | 15.10 | 1.40 | | 0.0 | 2246 |
| 14.10 | 34.60 | 53.90 | 11.50 | CARBON | 66.50 | D183109 | 4.60 | 0.50 | 415440 | 1064935 | SB | 11360 | 09/01/88 |
| | | | | | | | | | 15.70 | 1.20 | | 0.0 | 2354 |
| 10.30 | 43.90 | 45.20 | 10.90 | CARBON | 67.90 | D177434 | 5.10 | 0.80 | 415500 | 1063243 | SB | 11920 | 09/01/88 |
| | | | | | | | | | 13.70 | 1.60 | | 0.0 | 2192 |
| 13.90 | 40.20 | 53.40 | 6.40 | CARBON | 70.60 | D177436 | 4.60 | 0.60 | 415510 | 1064535 | SB | 12000 | 09/01/88 |
| | | | | | | | | | 16.30 | 1.50 | | 0.0 | 2156 |
| 11.20 | 46.10 | 45.70 | 8.20 | CARBON | 69.10 | D170258 | 5.10 | 1.10 | 415535 | 1063040 | B | 12200 | 09/01/88 |
| | | | | | | | | | 14.70 | 1.80 | | 0.0 | 2282 |
| 10.20 | 40.30 | 52.20 | 7.50 | CARBON | 69.50 | D176222 | 4.80 | 0.70 | 415605 | 1064650 | SB | 12090 | 09/01/88 |
| | | | | | | | | | 16.20 | 1.30 | | 0.0 | 2120 |
| 10.60 | 41.80 | 53.30 | 4.90 | CARBON | 73.30 | D171832 | 5.30 | 0.80 | 415622 | 1063146 | SB | 12870 | 09/01/88 |
| | | | | | | | | | 14.00 | 1.70 | | 0.0 | 2084 |
| 7.10 | 31.00 | 37.80 | 31.20 | CARBON | 51.80 | D187058 | 3.80 | 0.40 | 420020 | 1064720 | SB | 8950 | 09/01/88 |
| | | | | | | | | | 12.00 | 0.80 | | 0.0 | 2624 |
| 29.90 | 35.80 | 49.60 | 14.60 | CARBON | 64.30 | D187057 | 4.50 | 0.60 | 420030 | 1064840 | SB | 11190 | 09/01/88 |
| | | | | | | | | | 14.40 | 1.60 | | 0.0 | 2318 |
| HOLE NO RM-1-CS | | | | | | | | | | | | | |
| 29.20 | 42.20 | 44.00 | 13.80 | CARBON | 56.20 | D176627 | 3.20 | 0.40 | 420340 | 1065945 | SB | 8550 | 09/01/88 |
| | | | | | | | | | 25.30 | 1.10 | | 0.0 | 2912 |

Coal Field Information Printout for: WY - Wyoming

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank | Htg Val Free Swell | Last Chg Hemi Temp |
|----------------|----------|-----------|----------|----------|--------|----------|--------|--------------------|-----------------------|------|-----------------------|-----------------------|
| JOHNSTON MINE | 14.80 | 45.30 | 45.10 | CONVERSE | 65.50 | D161312 | 4.80 | 425230 | 1054500 | SB | 11170 | 09/01/88 |
| | | | | | | | 0.80 | 18.50 | 0.80 | | 0.0 | 0 |
| 20.70 | 44.50 | 35.70 | 19.80 | CONVERSE | 57.90 | D171837 | 4.40 | 430138 | 1054940 | SB | 9900 | 09/01/88 |
| | | | | | | | 0.60 | 16.50 | 0.80 | | 0.0 | 2147 |
| 19.50 | 47.40 | 41.70 | 10.90 | CONVERSE | 64.40 | D171839 | 4.90 | 430244 | 1055012 | SB | 11020 | 09/01/88 |
| | | | | | | | 0.90 | 17.20 | 1.70 | | 0.0 | 2039 |
| 22.70 | 45.10 | 42.20 | 12.70 | CONVERSE | 62.40 | D171838 | 4.80 | 430301 | 1055018 | SB | 10720 | 09/01/88 |
| | | | | | | | 0.60 | 18.70 | 0.80 | | 0.0 | 2138 |
| 17.10 | 44.30 | 50.60 | 5.10 | CONVERSE | 69.60 | D166180 | 4.90 | 433000 | 1051500 | SB | 12000 | 09/01/88 |
| | | | | | | | 0.50 | 18.80 | 1.10 | | 0.0 | 0 |
| 22.50 | 44.90 | 49.80 | 5.30 | CAMPBELL | 69.70 | D165593 | 4.90 | 433952 | 1051616 | SB | 11950 | 09/01/88 |
| | | | | | | | 0.40 | 18.70 | 1.00 | | 0.0 | 0 |
| 27.80 | 45.40 | 49.90 | 4.70 | CAMPBELL | 70.10 | D165600 | 5.00 | 434022 | 1051452 | SB | 12150 | 09/01/88 |
| | | | | | | | 0.40 | 18.80 | 1.00 | | 0.0 | 0 |
| 17.30 | 30.70 | 30.70 | 38.60 | JOHNSON | 37.80 | D179875 | 2.80 | 435005 | 1060335 | SB | 6570 | 09/01/88 |
| | | | | | | | 7.90 | 12.40 | 0.50 | | 0.0 | 2039 |
| 19.40 | 31.80 | 28.80 | 39.40 | JOHNSON | 40.50 | D179876 | 3.00 | 435055 | 1060405 | SB | 7030 | 09/01/88 |
| | | | | | | | 4.80 | 11.70 | 0.60 | | 0.0 | 2057 |
| BELLE AYR MINE | 14.50 | 40.50 | 52.00 | CAMPBELL | 68.40 | D177022 | 4.50 | 440035 | 1052230 | SB | 11500 | 09/01/88 |
| | | | | | | | 0.50 | 17.90 | 1.20 | | 0.0 | 2066 |
| 29.30 | 45.40 | 45.70 | 8.90 | CAMPBELL | 66.40 | D178089 | 4.90 | 440340 | 1053350 | SB | 11430 | 09/01/88 |
| | | | | | | | 1.30 | 16.90 | 1.60 | | 0.0 | 2336 |
| BELLE AYR MINE | 26.20 | 45.50 | 47.30 | CAMPBELL | 68.70 | D160988 | 5.30 | 440548 | 1052230 | SB | 11950 | 09/01/88 |
| | | | | | | | 0.80 | 17.10 | 0.90 | | 0.0 | 0 |
| 29.20 | 44.80 | 50.30 | 4.90 | CAMPBELL | 70.60 | D163521 | 5.00 | 440553 | 1052234 | SB | 12190 | 09/01/88 |
| | | | | | | | 0.60 | 17.90 | 1.00 | | 0.0 | 0 |
| 22.60 | 42.50 | 51.20 | 6.30 | CAMPBELL | 69.90 | D171826 | 5.20 | 440555 | 1052233 | SB | 12030 | 09/01/88 |
| | | | | | | | 0.50 | 16.90 | 1.20 | | 0.0 | 2183 |
| 27.10 | 43.20 | 49.30 | 7.50 | CAMPBELL | 67.90 | D160987 | 4.90 | 441628 | 1052328 | SB | 11700 | 09/01/88 |
| | | | | | | | 0.40 | 18.30 | 1.00 | | 0.0 | 0 |
| 27.20 | 46.50 | 42.90 | 10.60 | CAMPBELL | 65.40 | D171830 | 4.80 | 441647 | 1052319 | SB | 11370 | 09/01/88 |
| | | | | | | | 1.10 | 17.10 | 1.00 | | 0.0 | 2192 |

Coal Field Information Printout for: WY - Wyoming

| Location | Moisture | Volatiles | Fxd Crbn | County | Carbon | Hydrogen | Code Number | Sulfur | Latitude | Longitude | Rank | Htg Val | Last Chg |
|--------------|----------|-----------|----------|----------|--------|----------|-------------|--------|----------|-----------|-----------|------------|-----------|
| | | | Ash | | | | | | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp |
| 29.90 | 45.80 | 46.50 | 7.70 | CAMPBELL | 68.90 | 4.50 | D171829 | 0.40 | 441649 | 1052328 | SB | 11670 | 09/01/88 |
| | | | | | | | | | 17.40 | 1.10 | | 0.0 | 2084 |
| WYODAK MINE | | | | | | | | | | | | | |
| 10.40 | 45.70 | 44.30 | 10.00 | CAMPBELL | 65.60 | 5.00 | D160983 | 1.00 | 441700 | 1052334 | SB | 11470 | 09/01/88 |
| | | | | | | | | | 17.50 | 0.90 | | 0.0 | 0 |
| 21.90 | 43.00 | 51.60 | 5.40 | CAMPBELL | 70.30 | 5.10 | D171831 | 0.80 | 441725 | 1052332 | SB | 12290 | 09/01/88 |
| | | | | | | | | | 16.60 | 1.80 | | 0.0 | 2138 |
| HOLE NO B-1 | | | | | | | | | | | | | |
| 22.70 | 34.40 | 29.50 | 36.10 | JOHNSON | 44.00 | 3.60 | D179941 | 0.50 | 442112 | 1064135 | SB | 7490 | 09/01/88 |
| | | | | | | | | | 15.20 | 0.60 | | 0.0 | 2282 |
| 30.90 | 44.40 | 48.40 | 7.20 | CAMPBELL | 67.10 | 5.00 | D178107 | 1.00 | 442540 | 1055100 | SB | 11510 | 09/01/88 |
| | | | | | | | | | 18.70 | 1.00 | | 0.0 | 2102 |
| 37.10 | 48.10 | 42.80 | 9.10 | CAMPBELL | 62.80 | 4.40 | D178396 | 1.10 | 443250 | 1054955 | SB | 10370 | 09/01/88 |
| | | | | | | | | | 21.50 | 1.10 | | 0.0 | 2462 |
| 29.50 | 45.00 | 47.50 | 7.50 | CAMPBELL | 64.40 | 4.60 | D178106 | 2.80 | 443340 | 1055530 | SB | 10920 | 09/01/88 |
| | | | | | | | | | 19.30 | 1.40 | | 0.0 | 2246 |
| 34.60 | 49.00 | 42.70 | 8.30 | SHERIDAN | 58.90 | 4.10 | D169770 | 0.80 | 443908 | 1063138 | SB | 9460 | 09/01/88 |
| | | | | | | | | | 25.90 | 2.00 | | 0.0 | 0 |
| 36.80 | 48.60 | 35.30 | 16.10 | SHERIDAN | 52.20 | 3.30 | D169064 | 0.90 | 443909 | 1064412 | SB | 7900 | 09/01/88 |
| | | | | | | | | | 25.90 | 1.60 | | 0.0 | 0 |
| 38.70 | 50.10 | 39.30 | 10.60 | SHERIDAN | 56.00 | 3.60 | D169772 | 0.70 | 443956 | 1063408 | SB | 8650 | 09/01/88 |
| | | | | | | | | | 27.10 | 2.00 | | 0.0 | 0 |
| 36.50 | 48.20 | 43.60 | 8.20 | SHERIDAN | 59.40 | 3.70 | D169071 | 0.60 | 444250 | 1064216 | SB | 9390 | 09/01/88 |
| | | | | | | | | | 26.20 | 1.90 | | 0.0 | 0 |
| 37.10 | 50.40 | 41.80 | 7.80 | SHERIDAN | 58.40 | 3.80 | D169073 | 1.30 | 444323 | 1064322 | SB | 9240 | 09/01/88 |
| | | | | | | | | | 26.30 | 2.40 | | 0.0 | 0 |
| 40.70 | 47.20 | 36.40 | 16.40 | SHERIDAN | 51.20 | 3.30 | D169063 | 1.00 | 444326 | 1064112 | SB | 7860 | 09/01/88 |
| | | | | | | | | | 26.20 | 1.90 | | 0.0 | 0 |
| HOLE NO RM-7 | | | | | | | | | | | | | |
| 41.50 | 43.20 | 48.40 | 8.40 | CAMPBELL | 66.30 | 4.40 | D177741 | 0.70 | 444330 | 1053625 | SB | 11250 | 09/01/88 |
| | | | | | | | | | 19.50 | 0.70 | | 0.0 | 2255 |
| 41.80 | 49.10 | 39.00 | 11.90 | SHERIDAN | 55.20 | 3.40 | D169777 | 0.90 | 444330 | 1063421 | SB | 8440 | 09/01/88 |
| | | | | | | | | | 25.90 | 1.70 | | 0.0 | 0 |
| 40.30 | 49.20 | 42.40 | 8.40 | SHERIDAN | 59.00 | 3.70 | D169076 | 1.30 | 444451 | 1064350 | SB | 9400 | 09/01/88 |
| | | | | | | | | | 25.80 | 1.80 | | 0.0 | 0 |

Coal Field Information Printout for: WY - Wyoming

| Location | | County | | | Code Number | | Latitude | | Longitude | | Rank | Htg Val | Last Chg |
|-----------------|-----------|----------|-------|--------|-------------|--------|----------|----------|-----------|------------|-----------|---------|----------|
| Moisture | Volatiles | Fxd Crbn | Ash | Carbon | Hydrogen | Sulfur | Oxygen | Nitrogen | Hardgrove | Free Swell | Hemi Temp | | |
| 22.40 | 44.90 | 44.30 | 10.80 | 59.90 | D164618 | 3.80 | 444610 | 1052624 | SB | 13250 | 09/01/88 | 0 | |
| ----- | | | | | | | | | | | | | |
| HOLE NO 76-103 | | 36.00 | 33.60 | 47.80 | D186993 | 3.90 | 444719 | 1053321 | SB | 8390 | 09/01/88 | 2264 | |
| ----- | | | | | | | | | | | | | |
| HOLE NO RM-1-CS | | 43.20 | 10.90 | 63.60 | D176630 | 4.20 | 444740 | 1053150 | SB | 10740 | 09/01/88 | 2093 | |
| ----- | | | | | | | | | | | | | |
| HOLE NO RM-2 | | 40.80 | 18.80 | 58.80 | D177704 | 4.30 | 444743 | 1053238 | SB | 9920 | 09/01/88 | 2201 | |
| ----- | | | | | | | | | | | | | |
| HOLE NO RM-5 | | 41.10 | 16.20 | 61.50 | D177715 | 4.30 | 444756 | 1053723 | SB | 10450 | 09/01/88 | 2201 | |
| ----- | | | | | | | | | | | | | |
| HOLE NO RM-4-CS | | 43.40 | 8.80 | 66.50 | D176799 | 4.70 | 444802 | 1053530 | SB | 11390 | 09/01/88 | 2237 | |
| ----- | | | | | | | | | | | | | |
| 33.20 | 46.90 | 49.20 | 3.90 | 64.10 | D169059 | 4.50 | 444816 | 1063426 | SB | 10730 | 09/01/88 | 0 | |
| ----- | | | | | | | | | | | | | |
| HOLE NO 76-105 | | 42.80 | 9.90 | 64.90 | D187005 | 4.50 | 444819 | 1053336 | SB | 10930 | 09/01/88 | 2345 | |
| ----- | | | | | | | | | | | | | |
| HOLE NO RM-1-CS | | 43.40 | 12.70 | 62.70 | D176502 | 4.50 | 444841 | 1053530 | SB | 10470 | 09/01/88 | 2156 | |
| ----- | | | | | | | | | | | | | |
| 18.70 | 42.10 | 44.70 | 13.20 | 60.10 | D164626 | 4.20 | 444849 | 1052703 | SB | 13460 | 09/01/88 | 0 | |
| ----- | | | | | | | | | | | | | |
| HOLE NO 76-108 | | 42.30 | 23.70 | 56.00 | D186987 | 4.70 | 444856 | 1053454 | SB | 9950 | 09/01/88 | 2390 | |
| ----- | | | | | | | | | | | | | |
| HOLE NO RM-6 | | 41.80 | 13.00 | 62.80 | D177730 | 4.40 | 444930 | 1053835 | SB | 10670 | 09/01/88 | 2219 | |
| ----- | | | | | | | | | | | | | |
| 25.80 | 45.10 | 51.50 | 3.40 | 63.50 | D165045 | 4.40 | 445020 | 1064626 | SB | 10820 | 09/01/88 | 0 | |
| ----- | | | | | | | | | | | | | |
| 24.70 | 45.20 | 47.00 | 7.80 | 61.50 | D165043 | 4.60 | 445020 | 1064635 | SB | 10310 | 09/01/88 | 0 | |
| ----- | | | | | | | | | | | | | |
| 27.60 | 43.50 | 51.70 | 4.80 | 65.30 | D165046 | 4.50 | 445034 | 1064504 | SB | 11150 | 09/01/88 | 0 | |
| ----- | | | | | | | | | | | | | |
| 32.90 | 50.10 | 42.90 | 7.00 | 57.60 | D165044 | 4.10 | 445230 | 1065208 | SB | 11950 | 09/01/88 | 0 | |

Coal Field Information Printout for: WY - Wyoming

| Location Moisture | Volatiles | Fxd Crbn | County Ash | Carbon | Hydrogen | Sulfur | Latitude Oxygen | Longitude Nitrogen | Rank Hardgrove | Htg Val Free Swell | Last Chg Hemi Temp |
|------------------------------|-----------|----------|---------------|--------|----------|--------|--------------------|-----------------------|-------------------|-----------------------|-----------------------|
| BIG HORN MINE, TIPPLE SAMPLE | | | | | | | | | | | |
| 18.70 | 40.80 | 54.20 | SHERIDAN | 72.00 | D161320 | 0.60 | 445230 | 1065230 | SB | 13280 | 09/01/88 |
| | | | | | 4.90 | | 16.30 | 1.20 | | 0.0 | 0 |
| SHERIDAN | | | | | | | | | | | |
| 18.90 | 45.10 | 44.30 | SHERIDAN | 56.00 | D164633 | 2.60 | 445356 | 1064452 | SB | 9360 | 09/01/88 |
| | | | | | 3.80 | | 23.30 | 1.70 | | 0.0 | 0 |
| SHERIDAN | | | | | | | | | | | |
| 21.10 | 42.00 | 50.60 | SHERIDAN | 69.60 | D171840 | 0.80 | 445400 | 1065835 | SB | 12120 | 09/01/88 |
| | | | | | 4.90 | | 16.00 | 1.30 | | 0.0 | 2093 |
| SHERIDAN | | | | | | | | | | | |
| 19.10 | 35.00 | 37.90 | SHERIDAN | 52.00 | D171845 | 2.30 | 445402 | 1070559 | SB | 9120 | 09/01/88 |
| | | | | | 4.10 | | 13.30 | 1.20 | | 0.0 | 2192 |
| WELCH STRIP MINE | | | | | | | | | | | |
| 17.70 | 47.40 | 46.40 | SHERIDAN | 68.60 | D164650 | 1.80 | 445408 | 1070550 | SB | 12130 | 09/01/88 |
| | | | | | 5.40 | | 16.50 | 1.50 | | 0.0 | 0 |
| SHERIDAN | | | | | | | | | | | |
| 23.80 | 44.10 | 48.70 | SHERIDAN | 62.00 | D164628 | 0.50 | 445903 | 1064914 | SB | 9380 | 09/01/88 |
| | | | | | 3.10 | | 25.40 | 1.80 | | 0.0 | 0 |

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